

EIGHTEENTH YEAR, No. 8.

MILWAUKEE, AUGUST, 1893.

\$1.00 per Year. 10c. per Copy.

THE EDW. P. ALLIS COMPANY,



RELIANCE WORKS.

SOLICIT ORDERS FOR

MILWAUKEE, WIS.

Complete Flour Mill Outfits of any Capacity,

WITH OR WITHOUT MOTIVE POWER. ALSO FOR

Roller Mills, Feed Rolls, Screenings Rolls, Reel Scalpers, Sieve Scalpers, Flour Dressers.

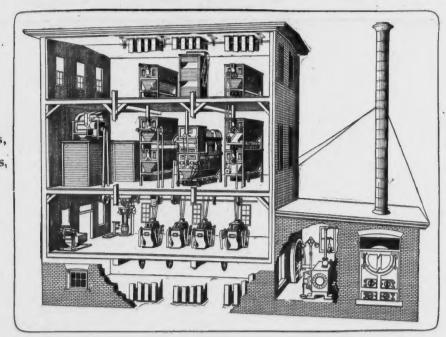
Air Purifiers. Sieve Purifiers.

Centrifugals,

Dust Catchers,

Meal Purifiers.

Flour Feeders.



Wheat Cleaners,

Corn Cleaners,

Corn Shellers.

Bran Dusters.

Flour Packers.

Wheat Heaters.

Scales,

Bolting Cloth,

Shafting,

Belting,

Pulleys,

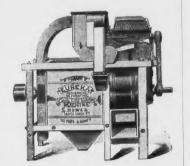
Gearing.

WE CAN FURNISH ANYTHING YOU NEED IN THIS LINE AT THE LOWEST MARKET PRICES.

Send for Our 136 page Pocket Price List, which is Very Complete and Handy.

OUR HAND BOOK "SMALL MODERN MILLS," CONTAINING ILLUSTRATIONS AND DESCRIPTIONS OF MILLS FROM 25 to 100 BBLS, CAPACITY,

THE EUREKA GRAIN GLEANING MACHINERY



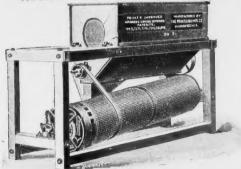
Stands admittedly at the head of all machines built for a similar purpose.

And WHY?

DECAUSE correct principles were embodied in them and correctly applying these principles, using the best materials and high grade labor, enabling us to build the best machines, and by fair dealings have built up the largest works of its kind in the World, shipping them to every part of the Globe where wheat is grown, and our annual sales exceed those of all others, and each year showing an increase over the one previous, affords indubitable evidence that the principles upon which the Eureka is built and operates, are in the broadest possible sense correct.

S. HOWES, Sole Builder, SILVER OREEK, N.Y.

From 15 to 230 Bushels per hour. Ten Sizes.



Small Space. Little Power. Slow Motion.

RECOMMEND

THE PRINZ & RAU MFG. CO., Miwaukee, Wis.:
In abswer to your inquiry regarding the Prinz Cockle Separator would say: We have had 11 of your No. 3 machines in use in Washburn Mill "A" for the past three years, and can fully recommend them as being the best all round cockle separators we have ever used.

Yours Very Truly.

JAMES McDANIEL

ONLY MACHINE IN THE WORLD WAS AN INDENTED STEEL CYLINDER

SEND FOR CATALOGUE OF REDUCED PRICES.

THE PRINZ & RAU MFG. CO.,

MILWAUKEE, WIS.

WM. & J. G. GREEY, TORONTO, ONT., Sole Manufacturers in Canada.

EXPORTING · MILLERS

Send for copy of the New Edition of the



More copies of this work are in actual use to-day than of all other Flour Cable Codes combined.

COPY. \$3.00 PRICE OF SINGLE

> A proper discount will be made to parties ordering one dozen or more.



ADDRESS ALL ORDERS TO

Riverside Printing Company,

MILWAUKEE, WIS., U. S. A.

Send for circular, giving scope of the work and names of many prominent firms using it, in America and Foreign Countries.

FARREL FOUNDRY & MACHINE COMPANY.

ANSONIA, CONN.

Sole Manufacturers of the Celebrated



ANSONIA * F

The general experience of American Miliers unites in pronouncing these Rolls the very best for Flouring Mill use.

These Rolls are now used in all Leading Flouring Mills. ■

CHILLED ROLLS FOR PAPER MILLS A SPECIALTY.

MIL

I am one of The Oldest and the Rost Extensive Mill Pick Maker in the United States.

36 YEARS EXPERIENCE.-

I keep on hand a large stock of new Picks of all sizes.

OLD PICKS DRESSED AND RETURNED PROMPTLY

New Picks will be sent to all parts of the country on trial, and if not first-class, return them at my expense.

= AN OFFER ==

To any miller who has never had any of my work I will dress Six Picks Free of charge.

Write for prices and other information. Ship Picks to the Old, Reliable Mill Pick Maker,

W. S. CASTERLIN,

Luzerne, Luzerne Co., Pa.

PICKS ROPP'S GALGULATOR



This book with its numerous tables, short cuts in figures, etc., is simply invaluable to Millers, Grain Dealers, Farmers and Business men generally. Prices, post-Business men generally. Prices, post-paid, as follows: No. 1, Bound in water-proof leatherette, 50 cents. No. 2, Fine artificial leather, with pocket, silicate slate and account book, 75 cents. No. 3 American Russia or Morocco, with pocket, siate and RENEWABLE account book, \$1.00. Address,

UNITED STATES MILLER,

MILWAUKEE, WIS.

10-tf Don't torget to mention this paper when you write. EIGHTEENTH YEAR, No. 8.

MILWAUKEE, AUGUST, 1893.

\$1.00 per Year. 10c. per Copy.

RANDOM THOUGHTS.

BY WANDERER.

THOSE mill-builders and furnishers who will survive the financial depression which is bearing down heavily upon them at this time, as well as on the majority of manufacturers and business men of the country, will be taught a great lesson. For many years the builders of flour mills have been their own great enemies. As long as roller milling was in its infancy, they were content to let each other quietly alone. The roller system however brought into existence a very large number of mill-builders, both large and small, in addition to those already established in the busi-They were all kept quite busy building new mills, and more particularly in remodel-ing mills from the burr system the new roller system. Machinery was sold at good prices in those days. A great deal of it was sold at list prices and seldom at a greater discount than ten per cent. This was not paid for strictly in cash either; considerable time was allowed on deferred payments. We must bear in mind, however, that in those days the milling business was much more profitable than it is in these days; besides, there were fewer mills and milling competition therefore not nearly as great. Another thing, the well-to-do mill-owners were the first to remodel their mills to the new system. It did not take but a few years until the wealthier and more progressive millers were supplied with the new improvements. Those millers who were hanging off and struggling to get along without throwing away expensive machinery for the purpose of adopting something new, were finally forced to either succumb to the new or close up the mill for good. As it was scarcity of money that held back many of them, they found it harder than ever to make up their minds to yield; and they had to depend largely on the good will of the mill-builder to allow the mill to pay for itself. By paying down a limited amount of cash and en up. Now let us take a look giving their notes for the balat the state of affairs at headance, it was not a difficult matter in those days for them to there were, were invested in meet their obligations and then improving and enlarging the soon to remove their indebted-working facilities of the plant.

ness. mills had changed over to the from year to year. new system, those of the small-obliged to resort to a regular er ones that had not already adopted it, were given particusecure their share of trade. Inadopted it, were given particular attention by the builders. By this time it was felt that in order to get their share of the trade, they would have to look it up more vigorously, and as a length of time that they had result the traveling force was rendered their services. This increased. Then began the cut- was likewise the case with ing of prices. Those who felt office men as well as their travthemselves lagging behind in eling force. It is therefore not the least were the first to make to be wondered at if the cona cut. Inducements of all kinds were made the small millers— to keep them up, which was systems were shortened and largely due to their having so simplified. Many mill outfits much money involved in mawere sold, that were a long ways from being complete, by salesmen who were anxious to sell. Millers also took advantage of the competition among the various salesmen and agents in bringing down prices to the very lowest notch. Mill-build-ers found that the best talent that could be found would have to be employed to look up trade for them, and by increasing their traveling force they would secure more contracts. While they were making every effort to economize in the manufacture of machinery, prices were gradually being cut lower. They were obliged to look up new fields, thus increasing their ex-penses right along. Hundreds of mills were contracted for, and ambitious traveling force. when the parties did not have any money to speak of, with the exception of a bonus of a few thousand dollars that was offered them by the enterprising citizens of the town in which they lived. They were on to the "tricks of the trade" sufficient to know how to buy a mill cheap. They would call together a drove of representatives of mill-builders and get the prices to the lowest notch possible and then beg for all the time possible in which to pay it. If one of the representatives should refuse, perhaps there was another that would not.

Such was the state of affairs "on the road," when the builders called in their men to take a vacation until matters bright-

After all of the larger Elaborate changes were made Gradually their wages increased from year to year owing to the cern required borrowed money chinery for which they have not yet received their pay. The financial crash found them heavily stocked with material of all kinds, preparatory for a big season's work. Owing to their customer's inability to pay off their notes as they became due, and being deprived the banks, it is not to be wondered at that mill-builders are suffering and are having a very heavy load to carry. It is to be hoped, of course, that they will all survive the sudden change which has been brought upon them. When trade opens up again there will be greater precaution taken, no doubt, and less rope given to the energetic

WHAT IS A CONTRACT.

CONTRACT is a deliberate engagement between competent parties upon a legal consideration, to do, or not to do, some act. In its widest sense it includes records and specialties, but the term is usually employed to designate only simple or parol contracts. By parol contracts is to be understood, not only verbal and unwritten contracts, but all contracts not of record nor under seal. This is strictly the legal signification of the term contract. Inasmuch as that reciprocity of consideration, and mutuality of agreement, which are necessary to constitute a parol agreement, are not requisite in obligations of record and in specialties.

three classes: first, contracts of to do any work or perform any

staple; second, specialties, which are contracts under seal, such as deeds and bonds; third, simple contracts, or contracts by parol.

A parol contract, then, is any contract not of record, nor under seal, whether it be written or verbal. Certainty and facility of proof are all the advantages gained by reducing such an agreement to writing; the liabilities of the respective parties are not changed. Every contract is founded upon the mutual agreement of the parties, and that agreement may be formally stated in words, or committed to writing, or it may be a legal inference, drawn from the circumstances of the case, in order to explain the situation, conduct, and relations of the parties. When the agreement is formal, and stated either verbally or in writing, it is usually called an express contract. When the agreecontract. of making further loans from ment is matter of inference and deduction, it is called an implied contract. Both species of contracts, are, however, founded upon the actual agreement of the parties, and the only distinction between them is in regard to the mode of proof, and belongs to the law of evidence. In an implied contract, the law only supplies that which, although not stated, must be presumed to have been the agreement intended by the parties. The law always pre-sumes such agreements to have been made, as justice and reason would dictate, and assists the parties to any transaction, to an honest explanation of it. But a promise will not be implied, contravening the express declarations of the party charged, made at the time of the supposed agreement, unless such declarations be at vari-

ise to perform that duty Wherever a party avails himself of the benefits of services done for him, although without his positive authority or request, the law supplies the formal words of contract and presumes him to have promised an adequate compensation. So, Contracts are divided into also, where a person engages statutes gage that he has sufficient skill

ance with some legal duty, and

then the law will imply a prom-

and ability to fulfill his contract, and, also, that he will use all the means necessary to ac-complish it. So, also, if a man having a title to certain property silently permits another to deal with that property as his own, in all transactions between such person and others, acting in the confidence that the property belonged to him, the true owner would be bound.

Thus, if a man stand by and knowingly see his own property sold, and either encourage the sale or does not forbid it, the law implies a contract between him and the vendee, and accredits the actual seller as his agent; and this rule obtains on the clear ground that if one of two innocent persons must suffer a loss, where one has misled the other, he who has been the cause of the loss ought to bear it. But in all cases, the circumstances must be such as to unequivocally imply a contract between the parties, and evidence may be given to rebut such a presumption. Nor is this rule restricted to cases where the true owner of property knowingly permits an-other to make sale of it, without interference or objection, but it extends also to cases where a party, being ignorant that he has any title, does or says anything in the premises which actually misleads the purchaser to his injury; for however innocent he may be of a fraudulent intent, he ought to suffer the consequences of his own act wherever loss or injury must accrue to one or the other party. Yet, if his mistake would not occasion absolute injury, or did not operate to deceive, he will not be bound home families hired their thereby. So whenever there is a uniform usage in a particular trade, the parties are presumed ilies owning free of incumto have contracted in reference to such usage, unless it be expressly excluded by them, or unless it be inconsistent with the actual terms of their agreement. It must, however, be a general usage, or an universal custom, which is brought home to the knowledge of the party, or it must be the special course or habit of dealing of one of the parties, recognized and assented to by the other, or no such presumption will arise. In such cases, the usage is understood to form a portion of the contract, and to ex-clude a rule of law inconsistent with it.

If, in a written contract, the words of recital or reference manifest a clear intention, that the parties shall do certain acts not expressly stipulated, the courts have therefrom inferred a covenant to do such acts and have sustained actions of covenant for their non-performance, in like manner as if the instrument had contained express covenants to perform them.

OWNERSHIP AND DEBT IN WIS-CONSIN.

The most recent issue in the series of census bulletins dealing with statistics of farms, homes and mortgages treats of ownership and debt in Wisconsin. In this, as in the preceeding bulletins in the same series. every family in the state is regarded as occupying a farm, or a home not on a farm, and as hiring such farm or home, or owning it free of incumbrance or owning it subject to incumbrance. In the census year there were 335,456 families in the state, of which 104,482, or 31.15 per cent of the total, hired farms and homes, and 230,974 or 68.85 per cent, owned them. Of the owning families 85,376, or 36.96 per cent, had incumbrances, and 145,598, or 63.04 per cent, were free of incumbrance. Of the total number of families 148,349, or 44.22 per cent of the whole were farm families, and of these 128,913, or 86,90 per cent, owned and 19,436, or 13.10 per cent, hired the farms cultivated by them. Of the owning farm families 55,242 or 42.85 per cent, had incumbrances on their farms, and 73,671, or 57.15 per cent, had no incumbrances. The fact that in 1880 only 9.05 per cent, of The fact that the farms were hired would cumbrance in the seem to point to a relative increase in farm tenancy during the year, but it is pointed out that the bases of the statistics are not the same, so that inference drawn from a comparison of the figures for the two census years might be erronous.

Of the whole number of families 187,107, or 55.78 per cent, were home families. Of these 85.046, or 45.45 per cent, of the homes and 102,061, or 54.55 per cent, owned them. The fambrance numbered 71,927, or 70.47 percent of the number owning, and the families owning subject to incumbrance numbered 30,134, or 29.55 per cent. City homes, it was found, were hired cities of the state having a population of from 8,000 to per cent, hired and 24.080, or 55,20 per cent, owned their homes. The homes subject to incumbrance were occupied by 31.52 percent of the total owning families, while 68.48 per cent of the total owning families had no home incumbrance. In Milwaukee, the only city having a

40.69 per cent of the home families kired and 59.31 per cent owned their homes, 24.10 per cent of the owning families owning with incumbrances and 75.90 per cent without incumbrances.

The liens incumbering the owned farms and homes of the state amounted to \$78,091,307, of which \$55,394,686 was on 55,242 farms and \$22,786,623 on 30,134 homes. The incumbered farms were valued at \$166,012,-998 and the incumbered homes at \$69,729,559, a total of \$235,-742,557. The ratio of debt to value was 33.31 per cent in the case of farms, 22.68 per cent in the case of homes, and 33.13 per cent for both. In the sixteen cities with a population ranging from 8,000 to 100,000 the ratio of debt to value was 32.33 per cent; in Milwaukee the ratio of debt to value was 32.86 per cent, and in the state outside the seventeen cities the ratio of debt to value was 32.86 per cent. The average owned and incumbered farm of the state was worth \$3,005, the average home \$2,314, of each home in the sixteen cities \$2,127 and of each home in Milwaukee \$3,398. The average farm incumbrance for the state was \$1,001, home \$756; home insixteen cities \$688, and in Milwaukee

The chief rate of interest in the state as regards the number of mortgages was 7 per cent. This rate was paid on 26.68 per cent of the farm incumbrance by 27.75 per cent of the farm debtor families, on 30.52 per cent of the home incumbrance by 36.05 per cent of the home debtor families; in the sixteen cities on 40.17 per cent of the home incumbrance by 40.23 per cent of the families occupying owned and incumbered homes, and in Milwaukee on 21.89 per cent of the home debt by 35.95 per cent of the home debtor families. Rates less than 7 per cent were paid by 33.49 per cent of the farm debtor families on to a greater degree than those 50.62 per cent of the farm debt, outside of cities. In the sixteen by 35.81 per cent of the home debtor families on 50.20 per cent of the home debt; in the 100,000 there were 43.627 home 16 cities by 29.61 per cent of the families of which 19,547, or 44.80 home debtor families on 31.62 per cent of the home debt, and in Milwaukee by 62.01 per cent of the home debtor families on 76.24 per cent on the home debt. In the state rates higher than 7 per cent were paid by 38.76 per cent of the farm debtor families on 22.70 per cent of the farm debt, by 28.14 per cent population greater than 100,000 of the home debtor families on (204,468), 57.87 per cent of the 19.28 per cent of the home debt; home families hired and 42.13 in the sixteen cities by 30.16 per per cent owned their homes, cent of the home debtor fam-Homes subject to incumbrance ilies on 28.21 per cent of the were occupied by 31.52 per cent home debt, and in Milwaukee of the total owning families, and by 2.04 per cent of the home debt, and in Milwaukee by 3.92 per cent of the home debt. The seventeen cities referred to highest rate reported was 30 home debt.—Bradstreets.

per cent, which was paid by one farm family on a debt of \$275.

The total interest charge for one year on the debt incumbering the owned farms and homes of the state was \$5,198,508, of which \$3,671,534 was on farms and \$1,526,974 on homes. The average interest charge for one year was \$66 on each farm, \$51 on each home, \$48 on each home in the sixteen cities, and \$69 on each home in Milwaukee. The average rate on interest was 6.64 per cent on farm loans, 6.70 per cent on home loans, 7.02 per cent on home loans in the sixteen cities, and 6.18 per cent on home loans in Milwaukee. The average annual interest value of each owned and incumbered farm in the state was \$200, of each home \$155, of each home in the sixteen cities \$149, and of each home in Milwaukee \$210. Outside of the seventeen cities the average annual interest charge on each home was \$42, the average rate 7.04 per cent, and the average annual interest value

From an investigation of the reasons why farm and home indebtedness was incurred it appears that 74.76 per cent of the farm debtor families of the state incurred 80,47 per cent of the farm debt for the purpose of buying real estate and making real estate improvements. when these objects were not associated with other objects, and that for the same objects, in the case of homes, 81.22 per cent of the home debtor families incurred 80.85 per cent of the home debt; in the sixteen cities that 81.85 per cent of the home debtor families incurred 79.88 per cent of the home debt, and in Milwaukee that 86.80 per cent of the home debtor families incurred 84.71 per cent of the home debt. The objects of real estate purchase and improvements, business, and the purchase of personal property, when not complicated with other objects, led 85.68 per cent of the farm debtor families of the state to incur 88.80 per cent of the farm debt, 89.77 per cent of the home debtor families to incur 93.32 per cent of the home debt, 89.76 per cent of the home debtor families in the sixteen cities to incur 92.24 per cent of the home debt, and 92.72 per cent of the home debtor families in Milwaukee to incur 93.84 per cent of the home debt. Farm and family expenses, standing alone, were repre-sented by 4.84 per cent of the farm debtor families of the state and 2.17 per cent of the farm debt; family expenses in the sixteen cities by 6.35 per cent of the home debtor families and

ORGANIZATION OF MILLERS IN THE UNITED STATES.

THE MILLERS' NATIONAL ASSOCIATION.

THE MILLERS' NATIO	A 10	, de	PDO	UU.	LATION.
President-C. B. COLE.					- Chester, Ill.
1st Vice-President-A. C. LORING.	-		100		Minneapolis, Minn.
2d Vice-President-B. F. ISENBERG,			-		Huntingdon, Pa.
Treasurer-S. H. SEAMANS, -	10		100	10-	Milwaukee, Wis.
Secretary-FRANK BARRY,			49		. Milwaukee, Wis.
		670	POPPERATE	für sitt :	OF STATE ASSOCIA

Secretary-FRANK P	BARRY, - "	
BOARD OF DIRECTORS.	STATE.	0
BOARD OF DIRECTOR		{ Pr
	INDIANA	Pri Se
C. R. Underwood, Salina	KANSAS	Se
P. H. Macgill, Baltimore,	MARYLAND.	Se
W. A. Coombs, Coldwater	MICHIGAN	Se
Chas. J. Martin, Minneapoli	SMINNESOTA	· Se
	MISSOURI	Se
C. C. White, Crete	NEBRASKA.	180
*Geo. Urban, Jr., Buffalo	NEW YORK.	1 8
	N. DAKOTA.	{ S
Homer Baldwin, Youngstow	упОНЮ	· { S
W. Latimer Small, York,	PENN'A	13
	S. DAKOTA	PS

^{*8.} H. Seamans, Milwaukee WISCONSIN... *Members of Executive Committee.

U. S. CIRCUIT COURT DECISION.

U. S. Circuit Court, Southern District of Ohio Eastern Division.

THE JONATHAN MILLS MFG. Co. Decided July, 6, 1898. M. C. WHITHURST, RT AL.

SAGE, G., I.

The patent involved in this cause The patent involved in this cause was granted November 7, 1882, to Jonathan Mills, for certain improvements in machines for dressing or bolting flour. The specification covers more than six pages of the letters issued from the Patent Office. There are fourteen claims of the letters issued from the Fatent Office. There are fourteen claims, of which the first, second, third and sixth are averred to have been infringed by the defendants. The patent is in terms for a "centrifugal" bolt." The claims referred to are sollows: as follows:

"1. In a horizontal centrifugal bolt, the combination of an outer shell, a reel, revolving longitudinal continuously arranged flier blades, and a central drum having a close or continuous peripheral surface, together arranged and operating substantially as described, and for the purposes set forth.

"2. In a horizontal centrifugal holt, the combination, with the

"2. In a horizontal centrifugal bolt, the combination with the outer shell and reel, of a flier having a number of longitudinal troughs, or recesses, in its circumferential surface, said troughs being closed at their bottom and embraced laterally by longitudinal spirally-directed flier-blades, whereby the material falling into said by the material falling into said recesses is prevented from falling to the bottom of the reel, substantially as described, and for the pur-

poses set forth.
"3. In a horizontal centrifugal "3. In a horizontal centrifugal bolt, the combination with the outer shell, and with the reel, of a flier consisting of a peripherally closed drum, proximating in diameter that of the reel, and provided with longitudinal apirally-directed blades applied to the circumferential surface thereof, substantially as described, and for the purposes set forth.

In a horizontal centrifugal bolt, the combination of an outer shell, and inner rotating bolting reel, and a central drum having a close or continuous peripheral surclose or continuous peripheral surface, said drum being provided with longitudinal blades on its peripheral surface, arranged to operate together as a continuous blade, or series of continuous blades, and having a rotary motion in the same direction with, but at a higher speed than, the reel, whereby material being bolted is prevented from overloading the bottom of the reel, substantially as described."

ICERS OF STATE ASSOCIATIONS. ident, E. C. Kreider, Jacksonville, etary, C. H. Seybt, Highland, ident, F. E. C. Hawkes, Goshen, etary, E. E. Perry, Indianapolis, ident, E. A. Colburn, McPherson, etary, C. V. Topping, Enterprise, ident, P. H. Macgall, Baltimore, etary, C. O. Norris, Baltimore, etary, J. O. Norris, Baltimore, etary, J. O. Norris, Baltimore, etary, J. A. Reynolds, Lansing, ident, F. L. Greenleaf, Minneapolis etary, M. A. Reynolds, Lansing, ident, F. L. Greenleaf, Minneapolis etary, M. A "bolt" in flour milling, as it was

A "bolt" in flour mitting, as it was known until a few years prior to the device set forth in the patent sued upon, was a cylindrical, hexagonal or prismatic hollow structure, mounted upon a revolving shaft, and consisting of a skeleton frame and consisting of a skeleton frame over which was stretched bolting cloth of the degree of fineness required for the particular work to be done. The bolting cloth was generally in pieces or sections, closely fitted to each other, and of different finesses, the closer woven or finer at the head, and the coarser at the lower part or tail of the bolt. The material was fed in at the head, which was set somewhat higher lower part or tail of the bolt. The material was fed in at the head, which was set somewhat higher than the tail, so that by the rotation of the bolt it was little by little conveyed to the tail. The fine portion of the material would be sifted out or bolted, and the coarser retained until finally discharged at the tail. By the constant revolution of the bolt the sifting process was greatly facilitated, and the larger meshes in the bolting cloth, as the material approached the lower end of the bolt, allowed the coarser particles of flour to pass through while the bran and offal were retained. It was found that the operation of this bolt was not complete. It did not entirely separate the flour from the bran, but would "tail-off" good stock. The speed with which the material introduced into the upperend of the bolt would pass through to the lower end was such that a material introduced into the upper end of the bolt would pass through to the lower end was such that a considerable portion of the flour would be carried off through the lower end without having been subjected to the proper sifting action. To remedy this defect the bolts were lengthened to twelve, and afterward to twenty feet. Even then they were of limited capacity and of imperfect yield, for the reason that the work of sifting was done in a small part only of the circumference of the bolt. The cylindrical bolt was first in order of time. Then the hexagonal, or sometimes the prismatic was introduced. time. Then the hexagonal, or sometimes the prismatic was introduced. But aside from the defects already stated they were all objectionable because of the space they occupied and of the large amount of bolting silk required, and its cost. Then was introduced the centrifugal bolt, a slow revolving bolting-silk cylinder located within an outer inclosure, as all the bolts were, and containing a series of revolving beaters, consisting of flat wooden blades supported by two or more spiders ers, consisting of flat wooden blades supported by two or more spiders or wheels located in the cylinder and near its end. These beaters, called also "fliers" and "beater-blades," were caused to revolve at a rate of from two hundred to four hundred revolutions per minute within the slowly revolving silk

was altogether different from anything that preceded it. As the material passed from the head, where it was introduced, to the tail of the reel or bolt, it was subjected to it a continuous beating action which imparted to a centrifugal motion and direction forcing it against the bolting cloth at all portions of the circumference, and thus largely increasing the capacity of the bolt. As a consequence the bolt was shortened to about eight or ten feet. The advantages were that the bolt occupied less space, that its capacity was increased, and the soft flakelike material was broken up by the beating action and the flour dusted or blown off from the bran, and a larger yield obtained. The disadvantages were the greater wear of the bolting cloth, which had to be frequently replaced, and the severe scouring and beating action of the cylinder. The action of this bolt s altogether different from any the bolting cloth, which had to be frequently replaced, and the severe scouring and beating action of the coarse middlings which forced bran specks and other impurities through the bolting cloth. For these reasons the centrifugal bolt was generally used for the purpose of producing a finish, and the cylindrical or hexagonal for making the best quality of flour. There is testimony that the action of the beater-blades had a tendency to make a

best quality of flour. There is testimony that the action of the beater-blades had a tendency to make a quantity of fine flour dust which, not having the qualities of rising, was detrimental to the baking qualities of the flour. It also produced an uneven flour, a part of it being forced through the silk in coarse granules, and a part reduced to a very fine powder, whereby its market value was lessened.

The next improvement was made by Jonathan Mills, to whom, on the seventh day of November, 1882, the patent in suit, No. 267,098, was issued. It consists of an outer case, a rotating reel or bolting cloth cylinder, an inner drum or imperforate cylinder of external diameter, say about six inches less than the interior of the bolting reel frame, and provided with blades or elevating devices which may be made of angle-iron and so attached to the drum as to hold the projecting flange somewhat inclined backward, with reference to the direction of motion, from a radial line of the drum. These blades are preferably about an inch and three-quarters in width, and from six to eighteen inches long. The apertures through which they are secured to the drum are in slot form so that they may be set at any desired inclination from a direct longitudinal line. Their number may be as desired, and they may be set in leaving line and inclination from a direct longitudinal line. so that they may be set at any desired inclination from a direct longitudinal line. Their number may be as desired, and they may be set in longitudinal series or out of line, as preferred, but in either case, in order to obtain the full capacity of the bolt, each line of blades must be continuous, and of the full length of the drum. Ordinarily, according to the specification, they should be set spirally, somewhat like the twist of the rifle in a gun. The specification contains suggestions of modifications of form and position of the blades to facilitate rapid feeding and to induce the direct currents of air; but these are details of construction and adjustment not necessary for the present ment not necessary for the present consideration.

The first defense is want of title in complainant, but after a detailed in complainant. But after a detailed account of the patent, in which its ownership is traced from the inventor and patentee, Jonathan Mills, to the complainant, it was held that

to the complainant, it was heat that the complainant's title was good. The second defense, that the com-plainant has an adequate remedy at law and therefore is not entitled at law and therefore is not entitled to sue in equity must be overruled. Crandall vs. Piano Mfg. Co., 24 Fed. Rep., 733, which is specially relied upon, was a suit against a licensee for royalties, and has no application here, nor has Root vs. Railway Company, 105 U. S., 189, where the patent had expired. The defendants are users, not manufacturers,

but if infringers they may be enjoined, and that disposes of the objection to the jurisdiction.

The next defenses are abandonment, laches and estoppel. These may be considered together. It is set up in the answer that no machine has been made or offered for sale by the complainant or any of its assignees constructed in accordance with the patent in suit. This is literally true, but it is not all the truth. It appears from the eviis literally true, but it is not all the truth. It appears from the evidence that Jonathan Mills was not financially able to construct and put upon the market any such machines. All the machines made and sold have been constructed under Mills patent of May 17, 1892, No. 474,916, issued upon an application filed Sept. 23, 1885. This patent is for an improvement on the patent in suit, but not essentially dissimiis for an improvement on the patent in suit, but not essentially dissimilar from it. Each has the inside drum provided with elevating devices. In the patent of 1882 these are called "flier blades" and shown to be relatively wide thin pieces of wood standing radially on the drum, while the 1892 patent shows them to consist of V-shaped ridges secured to the drum and arranged so closely together that their adjacent sides form V-shaped troughs extending longitudinally along the extending longitudinally along the drum between each pair of ridges. The difference is only in form, and The difference is only in form, and no one could make or use a machine under this patent of 1892 without coming within the patent of 1882. Union Paper Bag Machine Co. vs. Murphy, 97 U. S., 120, is a sufficient authority on this point. The 1892 patent is owned by complainant, but the complainant preferred, as he had the right, to bring this suit under the patent of 1882, which is as available for that purpose as if all the machines had been constructed in strict accordance with its specifications and claims. Had this suit been brought under the its specifications and claims. Had this suit been brought under the patent of 1892, the patent of 1882 would have been pleaded—and pleaded successfully—in anticipa-tion. The defenses of abandon-ment, laches and estoppel are overruled.

The case then depends upon the validity of the patent in suit, and whether the defendants are in-

fringers

The answer sets up a large num-ber of patents in anticipation. Of ber of patents in anticipation. Of these two are specially relied upon No. 184,821, to Bernheisel & Young, Nov. 28, 1876, and English patent No. 3013, of 1879, to William W. Dach. These are referred to by defendant's expert as the best anticipations of the claims on the complainant's patent averred to have been intringed by defendants. It will not be necessary, therefore, to consider any others. The Bernheisel & Young patent shows the ordinary any others. The Bernheisel & Young patent shows the ordinary centrifugal reel provided with floats carried on a central shaft and preferably constructed of two boards with an oney areas between them. carried on a central shaft and preferably constructed of two boards with an open space between them. These serve to throw the meal against the cloth, and also as "auxiliary fans to establish an outward current of air" whenever the slide over the aperture provided for the admission of air to the interior of the reel, as required in the operation of the machine, is open. There is also an exhaust fan driven by a belt leading from a pulley on the end of the shaft, and inducing an upward current of air. It is stated in the specification that "in falling through these currents the middlings will be purified by the removal of the fine pulverulent impurities which are mingled with granular particles." The shaft is provided with two collars, from each of which project radially bars of metal. To each pair of these are attached two longitudinally extending "floats" or blades set at an angle to each other, and radial bars of metal being bent for the purpose. The outer blades operate in the same manner as the blades of the ordinary centrifugal bolt, while the inner blades, adjusted to a different angle, produce, when the machine is in operation, "the necessary auxiliary fan action." The inner blades do not constitute a drum in fact, nor were they so intended. It was urged upon the hearing, that when in operation the material could not fall through into the space about the shaft, and that is probably true when the revolutions are rapid enough, but one object—and a great object—of the complainant's device, object of the complainant's device, is to accomplish the bolting by slow revolutions. The blades do is to accomplish the blades do not constitute the sides of troughs because the spaces between them are open. This device does not anare open.

not constitute the sides of troughs because the spaces between them are open. This device does not anticipate the complainant's patent. The English patent is for three inventions. The first two relate to roller mills and disintegrators. The third is for a "chop-cooler," having for its principal object "to remove the heated air which accompanies the meal from the grinding or disintegrating apparatus." For this purpose the patentee employed a rapidly revolving cylinder of perforated steel or metal, provided with screw bladdes. This was covered with flannel or other suitable material. The air was then experts, two of them practical millers, called by complainant, testify that in their opinion a machine constructed according to the specification of the English patent would be inoperative, and there is no testimony that such a machine ever was inoperative, and there is no testi-mony that such a machine ever was constructed or put in operation.
All the witnesses agree that the fan must be run at a very high rate of speed—not less than five or six of speed—not less than five or six hundred revolutions per minute— to make it effective as an air ex-haust. The English machine, if operative, is primarily a chop or meal cooler, the complainant's a bolter and not possibly a cooler. The English machine requires an The English machine requires an interior perforated drum, the complainant's a closed drum. The blades on the English machine are not continuous. They cover only about three-fifths of the length of the drum. The complainant's blades extend the entire length of the drum, and must be continuous. The English machine shows disintegrator pins projecting inwardly from the cloth cylinder in the spaces between the ends of the blades, and calls for hollow gudgeons at each end of the perforated blades, and calls for hollow gud-geons at each end of the perforated drum. It has no feed spout or other means for supplying materi-als; nor does it show, nor is there suggested any means for taking off the bran and offal. The construc-tion is such as to permit dust and fine flour to pass into the inner perforated drum and be exhausted through the fan and lost. In all these as well as in other respects. these, as well as in other respects, it differs from the complainant's machine. The testimony is that these differences are material, and the fact is that although defendants the fact is that although defendants called to account as infringers of complainant's patent may be fertile in suggestions of how the English patent might be so modified and reconstructed and adapted as to amount to an anticipation, to one amount to an anticipation, to one looking forward, and having no knowledge of complainant's machine, it would not suggest the slightest conception of the great improvement embodied in that machine. The English patent cannot be considered and the control of the chine. The English patent cannot be recognized as an anticipation. In the opinion of the Court the complainant's patent is valid. The evidence clearly establishes that the defendant's machine is an infringement. The decree will be for complainant, with costs.

At Duart, Ont., Aug. 16, the Duart roller flour mill was burned with a large quantity of wheat and flour. It was owned by A. J. O'Brien & Co. Loss, \$5,000 to \$6,000; partly insured.

FLOUR TRADE DURING JULY. During the month of July the flour trade of the United States was moderately active on export account, though many of the orders received were at extremely low figures. However, where millers could replenish there wheat supplies at satisfactory prices, they were inclined to dispose of their flour. The local trade, however, in sympathy with the depression in business generally, was somewhat curtailed. At the seabord markets the export trade was quite brisk, but at interior points in New England, New York, Pennsylvania, Maryland and Virginia, trade was moderate, and chiefly in the way of filling small orders. In Kentucky and Tennessee there was only a fair trade reported, but stocks were somewhat reduced. In Texas, trade was fairly good. Millers in Ohio were favored with moderate export orders, and the local trade was fair, though merchants were not disposed to carry large supplies. In Michigan the demand for flour was fair in an export way, but only a moderate proportion of the orders were provided for, as bids were below sellers' views. Local trade only moderate. Indiana millers reported a comparatively light trade, and chiefly on local account. In Illinois orders were moderate, and sales made at unsatisfactory figures. In Missouria fair trade was reported, chiefly in moderate quantities. Kansas millers were favored with a fair export and local trade, but prices ruled In Iowa trade was comparatively light, and in Nebraska was fair on local account. Wisconsin millers reported a quiet trade and prices rather unsatisfactory. In the Northwest quite a good export business was reported, especially at the larger points, where contracts could be made for through rates. In Colorado and Utah trade was light and confined to local wants. On the Pacific coast, trade was somewhat improved, though the financial affairs checked business to some extent. Canada millers reported trade rather quiet and prices rather unsatisfactory.-Chicago Trade

AUGUST CROP REPORT.

The August report of the statistician of the department of condition of corn has declined a little over six points during the past month, the average for the entire breadth being 87 as against 93.2 for the month 82.2 on the 1st instant. of July. This decline is due

jured the crop beyond recovery it is nevertheless true as to the larger portion of the area devoted thereto, that improvement is not only possible but, with a sufficient rainfall through the month of August, will be assured. The averages in the principal States are: Ohio, 85; Indiana, 79, Illinois 81; Iowa, 102; Missouri, 95; Kansas, 82: Nebraska, 84.

There has been considerable falling off in the condition of spring wheat since last month, amounting to something over ten points, the average condition the present month being 67 as against 74.1 for the month of July, The condition by States is as follows; Wisconsin, 70; Minnesota, 67; Iowa, 87; Nebraska, 58, South Dakota, 63; North Dakota, 66. This decline of ten points is the result of too high a temperature and deficient rainfall in the spring wheat States. The drought is prevalent over extensive areas and has done much damage. Much injury has also been done this crop by the chinch bug and rust in several of the States.

The condition of spring rye in August is 78.5 as against 89 in the month of July.

The condition of oats has fallen ten points since the July report, being 78.3 as com-pared with 88.8 last month, while in August 1892, it stood at 86.2. It is the lowest condition reported in August for many years, and is due to a cold wet spring, succeeded by continuous dry, hot weather during the latter part of June and the whole of July.

The August returns for barley show a slight decline in condition from that of the last month, being 84.6 against 85.3 in July, and precisely the same as it was in the month of June.

The acreage of buckwheat is reported at 96.3 as compared with 1892, and condition at 88.8.

The conditon of potatoes has declined nearly 9 points in the last month and now stands at 86. The condition in August has only been lower twice in in the last decade. The general drought has been the cause of this falling off and rain is needed badly to prevent further disastrous losses

The condition of the timothy crop is 89.6, as compared with 93.2 in 1892. The hay crop on the whole is large and has generally been secured in good I tistician of the department of condition, although in some Agriculture shows that the important regions unfavorable conditions caused a reduction of the crop.

The general average of to-bacco fell from 93 on July 1, to

A still further decline in the in the main to the drought, condition of apples is made which has proved both exten- evident by the returns of Ausive and persistent. While in gust. The indication that the

In many of the States a complete failure is reported. The drought has done damage to peaches in the Atlantic peach belt. Complaints are frequent of premature ripening, conditions still point to a large crop in this section, however, and local showers have benefited some localities. A further de-cline is noted in Michigan, where fruit has dropped severly. California has a good crop, of excellent quality. An abundant crop of grapes is promised at this date. The percentages of July have been generally well maintained. Dry weather hastened to check the spread of rot and mildew.

WHAT HAS BECOME OF THE CUR-DENCY.

As is well known there is more currency in the country than there ever was before, barring the few millions of net exports of gold during the last few months, which in the aggregate is only about 5 per cent of the money of the country, and as the price of all commodities have shrunken far more than this it follows that there is plenty of currency in existence for the transaction of business of the country, but it is evident that only a comparatively small part of it is available. What then has become of it? It has been drawn from the channels of trade, but by what process and why? It is simply a demoralization in public sentiment and a lack of confidence-not in the value of the currency itself, but in the ability of the debtors to promptly discharge their obligations; this seems to have begun with men who had no immediate use for the currency, but were afraid to trust it out of their hands and so withdrew it from the banks, and this precipitated the very thing they feared; many banks found the demands upon them greater than they could at once supply and many of them suspended, with their safes full of securities on which they could not realize, for there was no market for securities. The fate of these banks caused other banks to retain all the currency which came into their hands, refrain from discounting, and in some parts of the country refusing to honor checks except through the Clearing-House. Even the New York banks refused to send currency to the country and so the exchanges of the country were demoralized and business greatly restricted on this account. The epidemic of distrust seems to have affected all kinds of business, but the movement of commodities from one part of the country to another has perhaps been more seriously curtailed than any some parts of the country the commercial crop would be very other. The withdrawal of funds continued dry weather has in-light is confirmed at this date. from the banks is the root of our currency troubles; the banks themselves have aggravated the matter by increasing their reserves, but they can scarcely be blamed for preparing themselves to meet demands which might come in times of panic at any moment, and although in comparatively few instances were they called for, yet the currency was withdrawn from the channels of trade and this added to the evils of the hour.

The hoarding of currency on private account was doubtless considerable in the aggregate, but it was nothing compared to the quantity which the banks have withdrawn from general circulation. There were last year according to the last report of the Comptroller of the Currency, 3,773 National banks, 1,059 saving banks, 3,191 State banks and 1,329 loan, trust and private banks, and there are probably quite as many now. The aggregate of these is 9,352 banks and they held deposits of 4,677 millions of dollars or a sum about three times greater than all the circulation in the country. If each bank held on an average only \$150,000 it would be more currency than there is in the country, outside of the Treasury, and it is easy to see that these banks might easily have absorbed nearly all the available currency by increasing their reserve to only a moderate extent over that ordinarily held. This fully explains the disappearance of the currency and it shows the futility of expecting the banks to hold enough currency to pay all of these liabilities on demand.

There must be confidence and trust for the transaction of business and when people come to consider the subject in a reasonable manner, business will revive and prosperity will spread its wings over the country. - Cincinnati Price Current.

DECIDED IN THE COURTS.

DISCRIMINATION BY CARRIERS of Goods.-A common carrier of freight on the high seas has a right to provide at a certain time a reduced rate, on condition that all the consignor's freight, during such time, be sent by such carrier's line, and the same terms being offered to all shippers none have a right to complain.—Lough v. Outer-bridge, 22 N. Y. Supp. 976.

RETENTION AFTER DISCOVER-ING DEFECTS .- Retention and use of an article after discovery of alleged defects constitutes an acceptance, rendering the purchaser liable for the price, and an alteration made in the machine at the purchaser's expense does not relieve it from the article cannot be excused made by a mercantile agency the delivery was made, a comliability. The failure to return under the claim that it is a fix. to their subscribers, if made in mon carrier as to it, and its re-

removal, if unsatisfactory.-Logan v. Berkshire Apartment Ass'n. Common Pleas of N. Y. City and County, 22 N. Y. Supp. 776.

PREVENTING EMPLOYMENT BY Conspiracy.—An agreement between a labor organization and an association of manufacturers, that no manufacturer belonging to the association shall employ any person who is not a member of the labor organi zation, or to retain for a longer time than four weeks any employee who refuses to join the organization, is a conspiracy. Curran v. Galan, Supreme Court of N. Y., 22 N. Y. Supp. 826.

PRIVILEGED COMMUNICATIONS. Where a mercantile agency makes a communication to one of its subscribers who has an interest in knowing it, concerning the financial condition of another person, and such communication is made in good faith and under circumstances of reasonable caution as to its being confidential, it is a protected, privileged communication, and an action for libel cannot be found upon it, even though the information given was not true in fact, and though the words themselves are libel-

If it is shown that the publication sheet was not only sent to the creditors, of the party reported, but to all of the subscribers, regardless of their location or interest in their financial standing, and then claims immunity from liability upon the ground that such publication was privileged, the court will not be inclined to give its sanction to a doctrine which seems to be so harsh and unjust, and courts of high authority sustain this position. The Supreme Court of Michigan decided in a case against a commercial agency, that the notification sheet containing the false statement respecting the acts of a firm, was not alone sent to those who were dealing with them, and extending them credit, but to between six and Michigan, and others residing out of the state, from some of whom they might wish to pur- tation of authorities unnecesthis without any request being and others of whom, and by far the greater number, were ner interested in knowing their standing or financial ability or privileged.

ture attached to the purchaser's good faith, but made generally, building, where it appears that there is nothing to prevent its quiring concerning or interested in knowing the condition and financial standing of a person, are privileged. On the contrary courts have uniformly held that privilege does not extend to false publications, made to persons who have no such interest in the subject matter. The law guards most carefully the credit of all merchants and trades. Any imputation on their solvency, any suggestion that they are in pecuniary difficulties, is therefore actionable without proof of special damages. Of merchants, tradesmen and others in occupation where credit is essential to the successful prosecution, any language is actionable, without proof of special damages, which imputes a want of credit or responsibility, or insolvency.

INFRINGEMENT OF TRADE-MARK .- A dealer in merchandise may acquire the exclusive right to the use of packages of the shape, size and style in which he exposes his goods for sale, with the emblems, devices, and other distinctive features delineated or impressed on them, and the name which he has adopted to represent their contents; and a rival dealer will be enjoined from using similar packages, so closely resembling those of the first dealer that they are likely to deceive, and do deceive, the ordinary buyer, making his purchases under the ordinary conditions which prevail in the conduct of the particular traf-fic to which the controversy relates, though no one point of resemblance would be ground for equitable relief.—Fischer v. Blank, court of App. of N. Y. 33 N. Y. Rep. 1040.

COMMENCEMENT OF THE LIA-BILITY OF A RAILROAD COMPANY AS A CARRIER .-- A common carrier is liable for the loss of goods in his possesion as such, irrespective of any question of negligence or fault on his part, if the loss does not occur by the act of God or the public enemies, and with these exceptions he is an insurer against all seven hundred subscribers in losses, and this is a principle of the law of bailments, so well established as to render the cichase goods upon credit, and sary. The question is not as to the extent and character of made to be informed of the the liability of a common carstanding or credit of the firm; rier, but whether goods were in their possession as such. If the delivery of the goods was engaged in different lines of made to the carrier for as early business and were in no man-transportation as could be made in the course of its business, subject only to such delays as business integrity. To all such might necessarily occur from the communication was not awaiting the departure of trains, the lack of sufficient cars, or No court has gone so far as other causes existing in the busto make all communications iness, it became, the moment

sponsibility as such at once attached. The general rule is that the liability of a common carrier commences as soon as the goods have been delivered to and accepted by him solely for transportation, although they may not be immediately put in transit, but are, at first, for his own convenience, temporarily deposited in his warehouse. In such cases the deposit is a mere accessory to the carriage, and does not postpone his liability as a common carrier to the time when the goods shall actually be put in mo-tion towards their place of destination. Still, if he receives the goods in his warehouse to be forwarded, but not until he shall have received orders from the owners, or the happening of a certain event, or until something further is done to the goods to prepare them for transportation, the delivery to him is not as a common carrier but only as a warehouseman, and he is only answerable in the latter capacity if the goods are destroyed while in the warehouse, by fire, and before such orders have been received or such event has happened,-London & L. Fire Ins. Co. v. Rome W. & O. R. Co. Supreme Court of N. Y. 23 N. Y. Supp.

BRITISH GRAIN TRADE.

The Mark Lane Express in its weekly review of the British grain trade says: New English wheat is offered in provincial markets at 23s per quarter. Besides the serious deficit in the general yield of home-grown wheat the yield of grain of milling quality is almost everywhere declared to be disappointing. Foreign wheat has declined 6d. At the close of Foreign wheat has the market in London, August 14, all breadstuffs were firmer. New English red wheat sold at from 26s to 30s, and white at from 27s to 34s. American wheats are held for 6d advance. Oats were firm. Corn was Fine flour was held steady. for an advance. The prices of rye, linseed and rapeseed favored buyers.

The Agricultural Gazette publishes collated reports from 500 districts of the United Kingdom showing that the cereal harvest this year is the worst ever recorded. Potatoes alone are above the average.

The principal increase in stocks of wheat for the past week was as follows: Baltimore, 67,000 bush; Buffalo, 50,000 bush; Detroit, 148,000 bush; New York 36,000 bush; Philadelphia, 143,000 bush; St. Louis, 218,000 bush; Toledo, 152,000 bush. The principal decrease in wheat was as follows: Boston 77,000 bush; Chicago 232,000 bush; Duluth 550,000 bush; Milwaukee, 112,000 bush; Menneapolis, 567,000 bush; Montreal, 41,000 bush; on lakes 972,000 bush; on canal 264,000 bush; on Mississipppi 68,000 bush. The principal increase in stocks

THE GENERAL FIRE EXTINGUISHER COMPANY,

AUTOMATIC * SPRINKLERS

Of FREDERICK GRINNELL, WILLIAM NERACHER, JOHN HILL, WILLIAM KANE and others.

An association of the leading Sprinkler Companies, with shops conveniently located and thoroughly equipped for executing work at fair prices in all sections of the country.

Reliable Sprinkler Systems, both wet pipe and dry pipe, promptly installed in conformity with the best known methods

INFORMATION AND PROPOSALS FURNISHED AT THE SEVERAL DEPARTMENT AGENCIES:

NEW YORK, 413 Broadway. PHILADELPHIA, Mutuai Life Building. CHICAGO, 226 Lasalle Street. CLEVELAND, Society for Savings Building.

BOSTON, 178 Devonshire Street. BUFFALO, City Bank Building. ST. LOUIS, SOS Rigito Building. Also at WARREN, O., and COLUMBUS, GA.

PROVIDENCE, R. I. EXECUTIVE OFFICES,

HENRY W. BRACKETT, Department Agent. B. W. DAWLEY, Gen'l Supt. Western Department. 226 LaSalle Street, CHICAGO, ILL.

News.

N. HENTGEN has completed a 60-barrel mill at West Liberty, III.

Dow & CURRY will establish an oat-meal mill at Pilot Mound, Man.

COX & LANIER have purchased the flouring mill at Jug Tavern, Ga.

R. F. Brown will build and operate a grist mill at Spring City, Tenn.

W. R. ALLEN is to build a roller process flouring mill at Cookville, Tenn.

S. P. SCHANK will build a roller-process flouring mill at Waynes-ville, N.C.

AT Lincoln, III., Aug. 13, the Ester & Carpenter elevator was burned. Loss \$2,000.

THE OWSLEY FLOUR Co., of Nash-ville, Tenn., has filed papers of incorporation.

JOSEPH ALLRED, of Condor will build a roller process flouring mill at Allred's, N. C.

B. F. GREW has placed in opera-tion his new 75-barrel flouring mill at Pulaski, Tenn.

SAMUEL GLASS has purchased the interest of his partner, J. A. Noggle, in the mill at Lodi, O.

W. J. JENNINGS & Co., millers at Menlo, Ga., are succeeded by Jen-nings, Williams & Co.

THE Riverside Mill at Little Falls, Minn., is being repaired and some new machinery put in.

THE foundation for the Milaca, Minn., flour mill is in and the carpenters have begun work.

THE NEOSHO MILL & GRAIN CO., of Parkersville, Kans., has been incorporated. Capital stock \$7,000.

Augustus Wolf & Co., of Chambersburg, Pa., will erect a 100-barrel flouring mill at Tacoma, Wash.

GALLOHUGH & MARTIN have completed and are operating a new 50-barrel mill at Edmoud, Ok. Ter.

THE DEAN MILL Co. has been incorporated at Ava, Ill., to succeed Dean Bros. Capital stock \$35,000.

THE affairs of Isom, Lanning & Co., Albany, Or., have been settled and business resumed by John Isom.

W. N. CLEMENTS & SON have succeeded to the grist-mill business of W.N. Clements, at Fort Deposit, Ala.

THE CASE MANUFACTURING CO. Bt Columbus, Ohio, has increased its capital stock from \$150,000 to \$200,000.

elevator of E.F. Cool, partially filled with wheat, was burned. Loss \$4 000.

AT Correctionville, Ia. Aug. 12, the Correctionville roller mills were burned. Loss \$20,000; insurance \$16,-

THE contract for an 80-barrel flour mill at Forrest City, Mo., has been let by the Forrest CityMilling Com-

THE roller flouring mill at Sparta, Tenn., operated by Allen, Harris & Co., has been sold by them to J. R.

A ROLLER-PROCESS flouring mill and cotton gin will be built at Hick-ory Grove, N. C., by W. J. Wilkerson and associates.

THE flouring mill near Rockmart, Ga., owned by N. Lochran & Son, was recently burned, causing a loss of about \$12,000.

An elevator company, to be known as the Osborne-McMillan, has been formed at LaCrosse, with a capital stock of \$300,000.

THE flouring mill plant of the Winchester City Mills, at Winches-ter, Tenn., is to be enlarged and new machinery added.

THE WEISER MILLING CO., of Weiser, Idaho, which has been shut down since January, will resume with the new crop.

SIXTY-BARREL roller flouring mill is being erected near Dalton, Ga., by W. H. Prater, to be ready for this season's crop.

DAVID SEARS, H. C. JOHNSON and M. S. LIKE, have incorporated the Tri-City Milling Co., at Moline, Ill. Capital stock \$25,000.

THE ENTERPRISE MANUFACTURING Co. has recently completed a new 30-barrel roller process flouring mill at Enterprise, N. C.

AT Verndale, Minn. July 26, the Verndale flour mill, owned by Lou-ret Bros. & Co., was burned. Loss \$10,000; insurance \$4,000.

NEVILLE BRO's, saw and grist mill operators, Arlington. Ky., have dissolved partnership. The business will be continued by W.W. Neville.

THE GEORGIA MILLS & ELEVATOR Co. of Macon, Ga., will discontinue their mill business and put in ma-chinery for the manufacture of cotton-seed oil.

AT La Porte, Ind., July 13, Lorig & Weber's flour warehouse was burned. Five hundred barrels of flour were burned. Loss \$6,000; in-

AT Frankfort, Ill., July 18, fire broke out in John McDonald's ele-vator and burned it to the ground by a loss of \$6,500; covered by \$6,000 insurance.

HARDWICK & SURBAUGH'S Waken. da roller mill, at Wakenda, Mo., was destroyed by fire Aug. 5. It is believed that the fire was the work of an incendiary.

NEAR Newton, Miss., Aug. 1, the steam gin and grist mill belonging to Hon. D. T. Chapman was burned. Loss \$2,000. No insurance. It was the work an incendiary.

AT Mercer, O., July 20, Disher & Thompson, grain and general merchants, lost tile mill, grain elevator and general store by fire. Loss \$6,000; partially insured.

THE MANSFIELD MILL Co., of Cleveland, Tenn., and the Sweetwater, Tenn., Flouring Mills, have consolidated their business with that of the Mountain City Mill Co., of Chattaneous. tanooga

AT Carthage, S. D., Aug. 9, Patten, Jackson & Co.'s elevator was burned. Loss \$3,000; insurance \$2,200. The Carthage Warehouse Co.'s elevator was also destroyed. Loss \$5,000; insurance \$1,500.

AT Rutland, Vt., July 24, A. F. Davis' grist mill was partly burned. The fire caught from the machinery. One storehouse and other buildings were saved. Loss \$40,000; covered by insurance. by insurance.

It is reported that J. B. M. Kehlor of St. Louis, has purchased the mill at Aviston Ill., formerly operated by Mauntel, Borgess & Co. The mill will be thoroughly overhauled and its consists in the consists of the state of the consists of its capacity increased.

THE Dublin steam roller mills have been sold at auction at Dublin, Va., for \$2,200. J.D. Noble, W.B. Cecil and C.H. King were the purchasers. The mill was built about six years ago, and then cost \$13,000.

The flouring mills at Great Bend-Kans., paid out in wages to em-ployes for the year ending March 1, 1893, \$17.500; ground 689,000 bushels of wheat, 55,000 bushels of corn and consumed 730 tons of coal.

Spotswood & Morgan, millers, Nashville, Tenn., have dissolved partnership. The business is being continued by Mr.Morgan. Mr.Spotswood is building a mill at Nashville that will soon be ready for business.

olumbus, Ohio, has increased its surance \$3,000.

At Marietta, Kas., Aug. 10, the elevator, of McLeod Bros., together

J. W. PRITCHETT, of Wet Glaize, Mo., is succeeded by the firm of J. THE DOMINION MILLER'S ASSOCIATION has declared against the prac-

with 60,000 bushels of wheat was destroyed by fire. Lose \$35,000; insurance \$15,000. renovated.

THE PHENIX FLOURING MILL CO., has been incorporated at Evansville Ind., and will operate the Heilman roller mills, lately purchased. The incorporators are Jacob L. Knaus and Louis F. Ellis, and the capital stock is \$95.000. stock is \$25,000.

AT Humboldt, Tenn., Aug. 9, the roller flour mills, belonging to Ewing & Sons, was demolished by the boiler exploding, and the mill took fire. The entire building and contents were burned. Loss \$12,000, with \$2,000 insurance.

THE AMES & CAMPBELL CO., wholesale flour and grain, at Denver, Col., has given a bill of sale to the Colorado National Bank and the Lowland Mill & Elevator Co. In June its statement showed assets, \$51,000; liabilities, \$20,000.

THE NOBLESVILE MILLING CO., Nobleaville, Ind., has commenced operating its new mill. The daily capacity is 350 barrels of wheatflour, 50 barrels of rye flour and 75 barrels of corn products. The elevator has a capacity of 60,000 bushels.

AT Denver Col., Aug. 14, fire de-AT Denver Col., Aug. 14, fire destroyed the Crescent flour mills and elevator. The total loss. including a large quantity of flour in sacks and grain in the elevator, amounts to from \$250,000 to \$300,000. The insurance is about 75 per cent of the loss.

AT Fostoria, O., Aug. 8, the Cadwallader Milling Co.'s boiler exploded, instantly killing G. C. Davis, secretary of the company, and fatally injuring Fred C. Myers, bookkeeper. Calvin Robinette, James Long and James A. Minnick, the engineer, were slightly hurt. Loss,

AT Salisbury, Mo., August 14, fire broke out in the elevator of the Salisbury Mill and Elevator Co., burning the elevator, mill and flour house The loss will be \$40,000; insured for \$24,000. Fortunately the wind was blowing in a favorable direction at the time, thus saving much property across the street.

P. H. PETTIJOHN, one of the Pettijohn Bros., of breakfast-food fame,
Minneapolis, Minn., was killed Aug.
16, on the Great Northern Railroad
tracks, on Nicollet Island. He was
run down by a freight train. From
a statement made by a man who
was with him at the time, the impression prevails that it was a case
of suicide.

£170.000.00. MAXIMUM LINES,

C. W. MEEKER, Ass't Manager.

The Mutual Fire Policy Holes Selection application of Automatic Sprinklers.

Automatic Sprinklers.

Automatic Sprinklers.

Automatic Sprinklers.

Automatic Sprinklers.

Automatic Sprinklers.

Total Gash assets, \$235,092,13. Net Gash surplus, \$214,308.63. 48 Underwriters, collectively representing \$25,000,000.00. TOTAL CASH ASSETS, \$235,692.13. NET CASH SURPLUS, \$214,308.63.

The New York Fire Insurance Company, New York.

SELECTED RISKS ONLY.

226 and 228 Ita Salle Street,

CHICAGO.

MANUFACTURERS OF COTTON. MILWAUKER Milwaukee Bag Company PAPER AND JUTE FLOUR SACKS.

tice of underbilling and overloading cars by which dishonest dealers secure a great advantage in competition, and has decided to cooperate with the railways in urging on the Government the passage of legislation making it a criminal offense.

Milling Co., which is being wound up in the chancery court as an insolvent corporation, has been sold at Trenton, Tenn. at pubic auction by the receiver for \$3,000. The mill is comparatively new, having been run but a few years. The mill was erected and furnished at a cost of about \$30,000.

A BOILER exploded in the Wellington Star mill at Wellington, Mo., August, 16, killing J. R. Johnson, one of the owners, and Frank Albon, a boy 12 years of age. Only part of the body of the boy could be found. The boiler was carried up the hill about 200 yards. The mill had been idle several months and had started up under new management. up under new management.

W. G. SWANSON has been appointed receiver of the Pioneer Mills and Manufacturing Company, of Abilene, Texas, in answer to the petition of A. R. Moon, the secretary of the company is \$20,000. Its officers are: J. D. Currie, president; J. P. Massie, vice president; and A. R. Moon, secretary. Liabilities not given.

retary. Liabilities not given.
A. P. IRELAND of Minneapolis and B. H. Pettit of Verndale, have purchased the line of elevators on the Great Northern owned by the late A. A. Turner. The sale includes elevators at Wadena, Hewitt, Sebeka, Menaliga and Park Rapids, and the consideration was \$24,000. The new firm takes immediate possession, and Mr. Pettit will now manage the business. business.

AT Genesee, Idaho, July 25, the Alliance Warehouse was burned, with about 50,000 bushels of wheat in the building and contents. Loss \$30,000. The Washington Water Power Co., of Spokane, were the owners of a portion of the wheat, and held insurance for \$10,200. There had been large shipments from the stock a few days before the fire, and loss will not exceed 40 to 50 per cent on the insurance named.

either from Big Stone City or from Ortonville.

THE NOBL MILLS at Estill Springs, Tenn., opened for business, Aug. 3. Its daily capacity is 2,500 barrels, and the motive power is furnished by three forty-four inch horizontal Leffel turbine wheels under a 24-ft. head of water. The Elk river at this point makes a bend of three miles, returning again to a point this point makes a bend of three miles, returning again to a point but 300 feet from its former course. Upon the peninsula thus formed stands the mill buildings, three in number, fifty feet above any possible rise of the river. A canal sixty feet wide and fifty feet deep, is cut across this narrow neck through solid limestone. A magnificent dam of dimensioned stone, twelve feet high, 300 feet long and 100 feet wide, extends across the river, with the natural fall of twelve feet, gives the twenty-four-foot head under which the wheels run. The mill-house is twenty-four-foot head under which the wheels run. The mill-house is six stories high, 154x64, the ware-house is 200x54, and the elevator has a capacity of 500,000 bushels of grain. The mill is lighted by electricity, has a complete sprinkler system for protection against fire, together with a 125 horse-power rotary pump connected with fire hose in every room. The buildings are planned to admit of an enlargement to 3,500 barrels capacity without delaying or disarranging the business.

THE FIRE LOSS of the United States and Canada for the month of July, as compiled by the New York Journal of Commerce and Commercial Bulletin, amounts to the important total of \$12,118,700, or over a half a million more than the aggregate for the same month of 1892.

The following table shows the increase of fire loss during the first seven months of 1893, as compared with the same period in 1891 and 1892:

with the same per	100 111 1001	and room.
1801. January \$11,230,000 February 9,228,500 March 12,540,750 April 11,309,000 May 16,680,385 June 8,587,625 July 9,692,200	1892. \$12,564,900 11,914,000 10,648,000 11,559,800 9,485,000 9,265,550 11,530,000	1893, \$17,958,400 9,919,900 16 662,350 14,669,900 10,427,100 16,344,950 12,118,700
July		

Hen ao						
\$10,000 to	\$20,000					
20,000 to	30,000				******	
30,000 to	50,000			*****	******	
50,000 to	75,000		****	*****	to thee.	
75,000 to	100,000		*****	*****	******	
100,000 to	200,000	++++			******	
200,000 to	450,000	3333		*****	er eres	ш
						5
Total		FERE!		*****		а

well known in underwriting circles that the combination of low security values and abnormal fire losses is placing some of the fire insurance companies in an unhappy position. Collections from agents are very slow because they cannot persuade insurers to pay for the policies, some of which have been in force for months. The outstanding premiums are assuming enormous proportions, and should a great conflagration take place now there would be serious results to a number of fire insurance companies.

THE CADWALLADER MILL BOILER EXPLOSION.

The following is from the Fostoria, O. Daily Review of August 8:

About three o'clock this afternoon the boiler at the Cadwallader

About three o'clock this after-noon the boiler at the Cadwallader Milling Co's mill exploded with a dreadful report and scattered the debris of the boiler house in every direction. The end of the mill was crushed in and also the end of the

crushed in and also the end of the elevator adjoining.

The boiler house was blown to pieces and scattered in every direction, there not being two timbers left hanging together. The main part of the boiler landed about half way to Main street, while the flues appeared to go in the opposite direction and lodged in the end of the crushed elevator.

An immense cloud of steam and dust immediately rose above the mill, locating the scene of the ac-

An immense cloud of steam and dust immediately rose above the mill, locating the scene of the accident to the thousands who had been called from their homes by the sound of the explosion. An alarm of fire was sounded, and the department turned out and put a stream on several small fires that were smouldering in the ruins.

Glancy C. Davis, the Secretary of the company, was the first one to be picked from the wreck. At the time he was in the office and was thrown to a pile of brick about twenty-five feet distant. His body was badly mutilated, and he only lived a few moments, not regaining consciousness in the least.

Fred C. Myers, who was engaged in auditing the hooks of the course.

Davis was removed to the under-Davis was removed to the undertaking establishment of D. Asire, and after being prepared for burial was removed to his home on Cleveland street, where his sorrowing wife and family awaited his arrival, the sad news of his death having been conveyed to them shortly after the accident.

Fred C. Myers is married, and his wife is almost prostrated. At this writing the physicians have but little hope of his recovery. (Mr. Myers died at 6:30 p. m., the day of the accident.)

The following from Chicago Tribune, Feb. 14th:

RAILWAY NOTES.

"The Louisville, New Albany & Chicago has just added to its rolling-stock, two new sleeping and boudoir cars, costing nearly \$45,000 each. These cars are said to be the finest ever placed on any road in the country, and are specially designed for use during the World's Columbian Exposition."

These cars are models of elegance These cars are models of elegance and beauty, each Compartment and Boudoir being fitted with a complette toilet set, cleverly hidden from view when not in use. They are in daily service between Chicago and Cincinnati, and should be seen and used, to be fully appresized.

LITERARY NOTES.

IN Harper's Bazar for August 12th appears a curiously interesting descriptive article. "A Woman's Management of a Stock Farm." It refers to the notable exhibit at the Columbian Exposition made by Mrs. S. P. T. Willets, whose herds of Guernsey cattle are now famous in this country and abroad. Mrs. Willets's extensive acres, for grazing and other purposes, are situated at Roslyn, L. I. The contribution suggests, incidentally, an enlargement of the activities of woman beyond merely those dairy industries in which so many of them have been successful. IN Harper's Bazar for August them have been successful.

IN view of the near appearance of a new work of fiction from General Lew. Wallace, there is timeliness in a sparkling article in Harper's Weekly for August 12th, "The Author of the Prince of India; Some of General Lew. Wallace's Reminiscences of War, Diplomacy, and Literature." The article is illustrated with a new and admirable Reminiscences of War, Diplomacy, and Literature." The article is illustrated with a new and admirable portrait of the author of "Ben-Hur." The same number of the Weekly presents Mr. Richard Harding Davis's descriptive paper, "Constantinople," and a highly informing account of "Sea Coast Guns" for use at long range.

THE midsummer holiday number of The Century Magazine contains, in addition to articles on contains, in addition to articles on yachting and camping out, a num-ber of papers relating to foreign travel and Art, the opening one be-ing a unique description of "Fez, the Mecca of the Moors," by Stephen Mecca of the Moors," by Stephen Bonsal, the newly appointed Secretary of Legation to China. This paper is a graphic description from personal experience in the holy city of Morocco, and is illustrated by drawings after photographs. As a description of a little-known region which it is now practicable to reach within two weeks from New York, it has a special interest for tourists. for tourists.

A not less unusual feature is the second paper by Jonas Stadling, a Swede, who describes from personal investigation "The Famine in Eastern Russia," this paper being devoted to the relief work of the counger Teleton. As personal terms devoted to the relief work of the younger Tolstoy. As personal testimony concerning an event the facts of which are very much disputed, this paper has importance and interest. As before, Mr. Stadling's account is illustrated by drawings from photographs taken by the author, and not otherwise procurable.

procurable. A third narrative of travel is furnished by a series of "Phillips Brooks' Letters to Children," which are dated from Venice, Wurtzburg, Wittenberg, Vienna, Jeypore, Verona, Suez, Munich, London and ona, Suez, Munich, London and elsewhere in Europe, and which show the great preacher's kindly relations with children. These include a letter in rhyme, and are accompanied by notes on his life written by one of his family. A portrait of Bishop Brooks, engraved by Johnson, forms the frontispiece of the magazine.

In the City Series, now running in St. Nicholas, President D. C. Gilman describes Baltimore for the August number. As might be expected, he is inclined to consider the city from the point of view of the city from the point of view of an educator and consequently gives especial attention to the great li-braries and universities that bid fair to wrest from Boston the name of Modern Athens. The article is well worth reading, and is excel-lently illustrated by Harry Fenn.

An article that will attract every boy who owns, and can use a jack-knife is Miss McCabe's story of "The Boyhood of Edison." Here is a picture of the bright youngster who first printed a newspaper upon a railway train; a facsimile of the paper itself; a full retelling of the disconsingular and the fair," describes the Government Exhibit at Chicago, An article that will attract every

act of heroism that made "Al" Edison a telegrapher; and the story of the inventor's early wanderings as a knight-errant of the wire—all told in easy, untechnical terms a boy can understand.

SCRIBNER'S MAGAZINE FOR AUG. is as usual a fiction number, containing six short stories, five of them illustrated, and instalments of two short serials by Robert Grant and Instalments of two short serials by Robert Grant and Instalments of two short serials by Robert Grant and Instalments of two shorts. Harold Frederic. This idea of a fiction number was first realized in Midsummer, 1889, and it has proved one of the most popular features of the magazine. In it have appeared an unusual number of short stories which have become famous, several of them having been the beginning of the national reputation of well-known authors. known authors.

In addition to the fiction the August number contains the fourth of the series on "Men's Occupations"—Mr. Julian Ralph's account of the every-day life of "A Newspaper Correspondent." There is probably to-day no other working journalist in this country better able to describe the stirring life of that occupation, and in Mr. Ralph's pages one gets a vivid impression of the pertinacity, industry and steadfastness which are the most evident qualities of a successful journalist. W. T. Smedley (who has made many journalistic excursions as the illustrator of Mr. Ralph's writings) has made a series In addition to the fiction the

excursions as the illustrator of Mr. Ralph's writings) has made a series of effective drawings for this article. To the group of "Artists' Impressions of the World's Fair" a charming contribution is made by J. A. Mitchell, the clever and versatile ditor of *Life*, who describes in his pungent, satirical way "The Types pungent, satirical way "The Types and People at the Fair." This article is fully illustrated with sketches by Mr. Mitchell and Charles Howard Johnson.

THE September Harper's Magazine, which will be published Aug. 23 will contain a brilliant account of "A General Election in England," by Richard Harding Davis, illustrated by W. Hatherell; "An Albert Dûrer Town," a description of Rocamadour, by Elizabeth Robins Pennell, with twelve illustrations by Joseph Pennell; "Texas," a narrative of stirring events in the State's history and a description of its sources, by ex-Senator Samuel Bell Maxey; The Letters of James Russell Lowell, by Charles Eliot Norton; "Down Love Lane," in Old New York, by Thomas A. Janvier; "The Diplomacy and Law of the Isthmian Canals," by Sidney Webster; and "Edward Emerson Barnard," the director of Lick Observatory by S. W. Burnham. The fiction of the Number is agreeably varied. William Black's "The Handsome Humes" reaches its climax, and Miss Woolson's "Horace Chase" approaches an end, which will be reached in the Octo-"Horace Chase" approaches an end, which will be reached in the Octowhich will be reached in the October Magazine. There are two short stories: "Gabriel, and the LostMillions of Perote," by Maurice Kingsley; and "The General's Sword," by Robert C. V. Meyers; while "A Gentleman of the Royal Guard," by William McLennan, tells a tale as romantic as any in fiction—that of the life of Daniel de Gresollon, Sieur du L'hut, the hero of Dr. A. Conan Doyle's novel, The Refugees.

THE complete novel in the September number of Lippincott's is "A Bachelor's Bridal," by Mrs. H. Lovett Cameron. It tells of an un-conventional and illstarred mar-

conventional and illstarred mar-riage and its tragic consequences. The seventh in the series of Lip-pincott's Notable Stories is "The Cross-Roads Ghost" by Matt Crim. It is illustrated, as are two other brief tales, "Ishmael," by Richard Malcolm Johnston, and "The Carth-usian," from the French of Amédée Pigeon.

and tells how that part of it which relates to the army is thronged by visitors, while those which display the arts of peace are comparatively

the arts of peace are comparatively neglected.
"In the Plaza de Toros," by Marrion Wilcox. is an illustrated article describing an Easter bull-fight at Seville, "the cradle of the sport." The writer, like a good American, observed the spectacle closely, but with little admiration.

Mrs. Elizabeth Wormeley Latimer gives "A Girl's Recollections of Dickens" on his first visit to America 1841.

A shortstudy of "Forest Fires," by Felix L. Oswald, is accompanied by his portrait. Judson Daland, M. D., writes of 'Hypnotism: its Use and Abuse." Commander C. H. Rockwell of the U. S. Navy, narrates "A Sea-Episode" on a fever-stricken ship. Under the heading "Don't" F. M. B. offers some advice to young contributors. M. Crofton, under "Men of the Day," discusses Kossuth, James Whitcomb Riley. and the Earl of Aberdeen. A short study of "Forest Fires," by

Earl of Aberdeen.

The poetry of the number is by Zitella Cocke, Margaret B. Harvey, Edgar Fawcett and James K.

The Century has just come in possession of one of the most unique and important historical documents of the age. It is a record of the daily life of Napoleon Bonaparte on board the English ship that bore him into captivity at St. Helena, as contained in the hitherto workhighed in variable the agerate. unpublished journal of the secreta-ry of the admiral in charge. The reports of many conversations held by the admiral with the deposed emperor regarding his important campaigns are given with great fullness, and there is much about the bearing and the personal habits the bearing and the personal habits of Bonaparte during the voyage. The Memoirs of Las Cases contain the story of the Emperor's deportation as told by a Frenchman and a follower; this diary is an English gentleman's view of the same memorable journey, and of the impressions made by daily contact with the man who had had all Europe at his feet.

The dairy will be published in

The dairy will be published in early numbers of The Century.

WHEN TO BUY.

This question is a matter hard to determine. When in need of goods, necessity compels buying at once, but if prices are not known to be right, the quantity bought may be regulated to present needs. We have known dealers to buy goods in July for September delivery, and have awakened to the fact that a good profit had been lost by buying too soon, and again we have known times when July prices could not be duplicated in September. While considerable reliance may be placed upon the representation of an honorable salesman, as to the probable advance or decline in prices, yet, generally speaking, the best results come from merchant's own careful consideration and conclusions. Before it is necessary for him to buy in quantity it is advisable for him to ask different houses for discounts, or best net prices, upon the receipt of which he

are a rarity. He not only knows the lowest margin his house will accept, but is thoroughly posted on the prices of his competitors. As a rule, it is safe to place your order in his care, and it should be attended to at a time in advance of actual need as will admit of some little delay, without creating the annoyances and vexations incident to hurried orders when the trade is on.-L S. Bonbrake, in Business.

COST OF THE WORLD'S FAIR.

More than twenty-three million dollars have been expended on the World's Fair to date. Or, in exact figues, and according to the report presented to the directors by the treasurer up to and including August 10, the cost of creating and maintaining the exposition was \$23,101,821.16. This does not include the floating indebtedness, which amounts to a few hundred thousands. To offset this \$23,680,417.97 has been collected from various sources. Treasurer Seeberger now has on hand cash to the amount of \$527,244.91.

These figures must impress even the most thoughtless with the greatness of the enter-prise. They are the more astonishing, however, when compared with the figures given by other expositions. The most successful affair of the kind previous to the World's Columbian Exposition was held in Paris in 1889, and it cost less than \$9,000,000.

WISCONSIN SCHOOL FOR THE BLIND.

The Wisconsin School for the blind, located at Janesville, is maintained by the state for the edmaintained by the state for the education of children of school age, whose sight is so defective that they are unable to study in the common schools. In the Literary Departmentall the common school and high school branches are taught. taught.

The Musical department gives instructions in vocal and instrumen-tal music including piano, organ and violin. The work department endeavors to teach the trades that blind people can profitably engage in. At present pupils are taught in. At present pupils are taught piano tuning, rag carpet weaving, chair caning, broom making, hammock, fly-net and fish-net making. The girls are taught plain and fancy, hand and machine sewing, knitting, crocheting and hammock making and house keeping, including cooking.

Many graduates of this school many graduates of this school are now making a comfortable living by means of the trades learned there. The school term begins the second Wednesday in September and continues forty weeks. Thirteen teachers are employed. Board and tuition are free to all pupils, residents of the state. This generous provision places the to all pupils, residents of the state. This generous provision places the benefits of the school within the reach of all. If any of our readers are aquainted with a child who is entitled to admission to the school, they will confor a favor by sending

Milwaukee Notes

THE stock of wheat here is reported at 950,570 bush. against 540,158 bush. for the corresponding day last year.

FLOUR is steady and quiet at prices based on \$3.70 and 3.80 for choice hard spring wheat patents, in wood. Millstuffs are firm and scarce at \$12.25 for sacked bran and \$12.75 for

THE Milwaukee National Bank will resume business. The stockholders have asked for and, doubtlessly, will be granted an extension of time to secure the balance of the \$250,000 required again.

On account of the suspension of the two banks wherein the city funds were deposited Milwaukee is suffering for want of ready money wherewith to keep the financial machinery of the city in operation and several means have been adopted to raise funds for immediate use. Bids for \$495,000 of city bonds will be opened August 24, the purchaser to pay cash.

interest is felt in the forthcoming statement of the Receiver of the Wis. Marine and Fire though the receiver is not compelled by law to make public the statement it is generally hoped it will be so made.

Angus Smith lately shipped a Cargo of 107,000 bushels of Winter wheat, on the steamer Schlesinger, to Buffalo. This is the largest cargo ever cleared from Milwaukee. Grainfreights are assuming a somewhat livelier aspect but the rates are still low. The Schlesinger took the noted cargo for Buffalo at 1c, while through rates to New York were made for 634 cents.

MR. F. VAN DER WYNGAERT, president of the Millers' Association of Germany was in the city for a few days during the month and, on the 16th inst. visited the extensive works of the Edw. P. Allis Co.

THE Edward P. Allis Company has issued a handsome souvenirand catalogue containing steel plate engravings of the different departments of the Reliance works. The souvenir will be given away.

LEN. HINCKLEY, the Milwaukee crop expert, who has spent a month in traveling over Minnesota and the Dakotas, estimates the crop of spring wheat of these three states at 70,000,000 bush. He writes that North Dakota will have about 60 per cent of last year's yield, or 40 per cent of that of 1891.

THE flour mills of the city though not operating very ex- Waupaca 25, Elroy 46, Viroqua

motion in the matter of output erty Pole .87, Osceola .36, Hillsshowing for the past 10 weeks borough .50, Westfield .40, a minimum daily production of Valley Junction .50, De Pere .19, 4.475 barrels and a maximum of Osseo .50, Cadiz 1.17, Juneau 6,500 barrels, the average daily 91, Harvey. 63, Ladoga .50, Koeproduction for the stated time penick .30, Manitowoc .93, being 5,483 barrels.

Crandon .24 Delavan .91. being 5,483 barrels.

WEATHER CROP BULLETIN OF THE WISCONSIN WEATHER SERVICE.

[For week ending Tuesday, Aug. 15th, 1893] U. S. DEP'T OF AGRICULTURE, WEATHER BURBAU,

Bulletin No. 18.

Special reports were requested this week from the principal potato counties, and the condition of the crop must be stated as far from promisto enable the bank to open in 7. Up to the latter part of July potatoes showed a fine growth. The acreage was fully an average one and prospects were excellent for a very large yield. But the deficient rainfall of June and July with very high temperatures have combined to finally lower the standard, and since August 1st there has been a marked prospects deterioration in throughout the whole state. Light but general rain on the A great amount of public the drouth condition was too recent shipments of New Era deep-seated to be relieved by anything but a soaking rain. Reports are almost unanimous ing Co., Centralia, Wis., (3d Ins. Co. Bank or the Mitchell in showing the crop to be order from this company); D. F. Bank, as popularly known, and damaged by the drouth beyond Hess, Freeport, O.; Uhl & Co., full bountiful rains come during the remainder of the season. In many counties the tops

other growing crops, but the very large yield estimated during last month must now be considerably modified, and con-siderable rain will be needed yet to make a large crop.

Tobacco has suffered greatly, and does not show anything like the condition which it did last year at this time.

Light frosts on the 6th and in a few exposed places on the 12th have touched cranberries a little, but the vines are loaded and the promise of a large crop is still good.

which should fall during the past week is about .65 of an inch; the following selected reports will enable comparisons to be made: Milwaukee .26, Weston .08, Louisville .40, Shawano .31, Union Center .20, Rolling Prairie .24, S. Kaukana .20, Green Bay .20, City Point 2.02, Brodhead .65, Viola .30, Waupaca .25, Eiroy .46, Viroqua

tensively keep up a steady .73, Prairie du Chien 1.78, Lib-

WILLIS L. MOORE, Local Forecast Official, Weather Bureau Director.

TRADE NOTES.

THE Superlative Purifier Mfg. Co. of Milwaukee have lately furnished La Croix Air Circuit Purifiers, with sieves, to Glenn Bros., Hillsboro, Ill.; A. J. Meisenhelder, Palestine, Ill.; American Cereal Co., Akron, O.; Sturgis Milling Co., Sturgis, Mich, (2 machines).

THE Cockle Separator Mfg. Co. of Milwaukee, have lately made shipments of Kurth Cockle Separators to J. E. Shelton, Madison, N. C.; McGloin & Spillane, Lanesboro, Minn.; L. Banks Holt, Mebane, N. C.; Corbett Mill and Machinery Co., Washington, D. C.; E. M. Holt's Sons, Burlington, N. C.; J. H. Gambrell, Frederick, Md.

THE Superlative Purifier Mfg. Scalpers to Harsha & Caskey, Portsmouth, O.; Jackson Millrecovery even though Delphi, Ind.; Link & Mallonee, tiful rains come during Paris, Ill.; Williams & Groat, Portland, Or., (3 machines); Jos. S. Finch & Co., Pittsburg, Pa.; stand strong and luxuriant but H. E. McEachron, Wausau, stand strong and luxuriant but a close examination shows few tubers in the hills. A two-thirds yield is a large estimate to make upon the condition shown to-day, and unless rain is much more plentiful during August this will have to be reduced.

H. E. McEachron, Wausat, Wis.; Knoblock & Ginz Milling to Milling Co., South Bend, Ind.; Sturgis, Mich., (2 is well known as an advocate—with cause of the common people. He aims to make a magazine of interest and value, and place it in the homes of our of the moto, who has made it so, willing Co., Sturgis, Mich., (2 is well known as an advocate—with cause of the common people. He aims to make a magazine of interest and value, and place it in the homes of our results of the moto, who has made it so, willing Co., Sturgis, Mich., (2 is well known as an advocate—with cause of the common people. He aims to make a magazine of interest and value, and place it in the homes of our results of the moto, who has made it so, milling Co., South Bend, Ind.; Sturgis well known as an advocate—with cause of the common people. He aims to make a magazine of interest and value, and place it in the homes of our results of the moto, who has made it so, milling Co., South Bend, Ind.; Sturgis well known as an advocate—with cause of the common people. He aims to make a magazine of interest and value, and place it in the homes of our results of the moto, who has made it so, milling Co., South Bend, Ind.; Sturgis well known as an advocate—with cause of the moto, who has made it so, and the moto, w dletown, O., (2 machines); Stewart & Ward, Bellaire, O.; Corn, of course, has stood the Stewart & Ward, Bellaire, O.; a luxury combined, yet not one bedrouth better than any of the Herman & Hathaway, Bliss-yond their reach. Co., Economy, Pa.; E. A. Ordway, Rothsay, Minn.; Glenn Bros., Hillsboro, Ill.; E. C. Ordway, Hartland, Wis.; Louis Becker, Manti, Útah.

RECENT MILLING PATETNS.

The following list of patents for Milling and Grain-handling Appliances, granted during July 1893, is specially reported for the UNITED STATES MILLER by H. G. Underwood, Patent Attorney, 107 Wisconsin st., Milwaukee, Wis., who will send a copy of any patent named to any address for 25 cents.

No. 500,832, Automatic Feed-regulator for Mills, A. N. Wolf, Al-

No. 502,116, Gyrating bolt, W. E. Getzs, Quincy, Hi.
No. 502,187, Middlings-purifier, W. D. Gray, Milwaukee, Wis.

TRADE MARKS.

No. 23,205, W. H. Stokes, Watertown, S. D., Wheat Flour. The word "SPLENDID," in white letters on red field, used since December 1,

No. 23,296 to 23,302, 23,296 to 23,302, Northwestern Consolidated Milling Co., Minneapolis, Minn., seven trademarks for wheat flour, "PETTITS BEST," used since January 1, 1874, "WHITE AND GOLD," used since January 1, 1874, "EMPEROR," used since June 1, 1880, "ASTERIOD," used since January 1, 1874, "CHRISTITUS FEWER 1, 1874, "CHRISTITUS FE Northwestern January 1, 1874, "Christi-An's Extra," used since April 1, 1876, "DANUBE," used since August 1, 1880, and "Christi-AN'S SUPERLATIVE," used since April 1, 1876.

April 1, 1876.

No. 23,372, and 23,373, Leaycraft & Co., New York, 2 trade-marks, Flour and Meal, "EL JABALL," used since April 15, 1883, and "COBUR DE LION," used since 1891.

No. 23,381, Kauffman Milling Co., St. Louis, Wheat Flour, "ST. LAWRENCE," used since 1875.

No. 23,384, Northwestern Consolidated Milling Co., Minneapolis,

No. 23,384, Northwestern Consoli-dated Milling Co., Minneapolis, Minn, Wheat Flour, "Minne-HAHA," used since December 1,

23,421, Marshall-Kennedy Milling Co., Allegheny, Pa., Wheat Flour, "CAMBRIA," used since January 1, 1892.

OUR arrangements with Home and Country Magazine—one of the leaders in its lines, issued at New York, Monthly (samply copies can be found at our office) enables us to supply our readers and only such with it, at a price less than the cost of its production. of its production.

of its production.

Home and Country Magazine
now in its ninth year, is one of the
most interesting, instructive and
attractive among the higher class
of periodicals. Its motto "Fraternity means something" is already
a household word in homes of our

yond their reach.

A DEPARTMENT of Home and Country Magazine devoted to prize contributions is an innovation on old times. It is intended to encourage amateur literary talent courage amateur literary talent alone, and is worthy of consideration by all our readers, who are thus inclined, especially achool teachers and pupils. Many a literary gem of purest water has been lost to young author. This need be so no longer. Accepted articles are paid for at the regular rates, besides which, as published, they are entitled to share in the prize competition arranged especially for such articles. This is one among the attractive features of Home and Country. Any of our readers can attractive features of Home and Country. Any of our readers can obtain full particulars by addressing the publisher. Subscriptions for the magazine in accordance with any of our offers (see advertising pages) must, to secure attention, be sent to us.

THE wheat yield, generaly speaking is light—more than usually light—but the quality of the grain is far above the average, says a report from Grand Forks, N. D.. In most places the wheat is No. I hard, and unless it bleaches, or is in some way injured, it will rank better than for some time. THE wheat yield, generaly speak-

FCAUSE

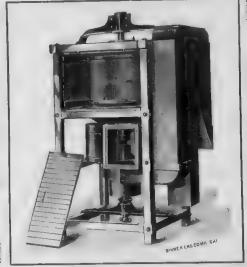
MARKET THE THE BEST

IT IS THE MOST

Perfectly Ventilated.

It will DISCHARGE all DIRT and SCREENINGS. You will not be obliged to put in a rolling screen or other device, to take out the

DUST AND DIRT.



IT WILL NOT

Break any Wheat.

It is built of the best steel, iron and wood that can be procured, and in the strongest man-All parts can be ner possible. easily and

CHEAPLY RENEWED.

IT WILL SCOUR SMUTTY WHEAT PERFECTLY.

WE GUARANTEE THIS MACHINE IN EVERY RESPECT.

PROVOST MANUFACTURING COMPANY

MENOMINEE, MICH.

WANTED

Some Live, Practical Mill men, to introduce our New Method of

LEVELING ROLLS WHILE RUNNING.

AMERICAN ROLLER LEVELING CO.,

MILWAUKEE, WIS.

AMERICA'S

MOST UNIQUE AND ATTRACTIVE ILLUSTRATED MONTHLY.

FOR EVERY MEMBER OF EVERY FAMILY. BY THE YEAR, \$2.50. 25 CENTS A COPY

Entertaining, Instructive, Profusely and Artistically Illustrated. Wide in Its Scope.



Liberal in Its Views,

Pure in Its Morals,

Advanced in Its Teachings,

Religious in Its Sentiments.

HELPMATE TO MAN,

COMPANION FOR WOMAN, WELCOME FRIEND TO ALL.

Americanism is infused into its columns.
Science is popularly treated
Dress, Fashion and Domestic Economy by popular
contributors.

contributors.
Business Articles in its columns valuable to all who work for a livelihood.
Fletion: Its stories, promety illustrated, by the best autions, are complete in each number.
Poetry; Travel; Adventure.

Amongst the Well-known Authors who Contribute to "Home and Country Magazine" are:

CHAS F. DEEMS, D.D. LLD.
Mrs. HENRY WARD BEECHER,
HEZEKIAH BUITERWORTH,
ELLA WHEELER WILCOX.
Prof. JOHN CLARK RIDPATH,
CHARLOTTE W. HAWES,

T. V. POWDERLY.
ELIZABETH CARDOZA,
JOKL BENTON,
Com. and Mrs. BALLINGTON BOOTH,
Gen. JOSEPH A. NUNEZ,
And a Host of Others.

Desirable Agents Wanted in Every Locality.

PATENT

FOR INVENTIONS.

Equal with the interest of those having claims against the government is that of INVENTORS, who often lose the benefit of valuable inventions because of the incompetency or inattention of the attorneys employed to obtain their patents. Too much care cannot be exercised in employing competent and reliable solicitors to procure patents, for the value of a patent depends greatly, if not entirely, upon the care and skill of the attorney.

With the view of protecting inventors from worthless or careless attorneys, and of seeing that inventions are well protected by valid patents, we have retained counsel expert in patent practice, and therefore are prepared to

Obtain Patents in the United States and all Foreign Countries, Conduct Interferences, Make Special Examinations, Prosecute Rejected Cases, Register Trade-Marks and Copyrights, Render Opinions as to

Scope and Validity of Patents, Prosecute and Defend Infringement Suits, Etc., Etc.

If you have an invention on hand send a sketch or photograph thereof, together with a brief description of the important features, and you will be atonce advised as to the best course to pursue. Models are seldom necessary. If others are infringing on your rights, or if you are charged with infringement by others, submit the matter to us for a reliable OPINION before acting on the matter.

THE PRESS CLAIMS COMPANY, 618 F STREET, NORTHWEST, WASHINGTON, D. C. JOHN WEDDERBURN, Managing Attorney. P. O. BOX 463.

ART Cut this out and send it with your inquiry. - RE





S. H. SEAMANS, PUBLISHER.

PUBLISHED MONTHLY.

OFFICE:
68-C MITCHELL BUILDING, MILWAUKEE. Subscription Price—Per Year, in Advance: To American subscribers, postage \$1.00 To Canadian subscribers, postage \$1.00

.. 1.00 Foreign subscriptions. All Drafts and Post-Office Money Orders must be made payable to THE UNITED STATES MILLER.

Bills for advertising will be sent monthly unless otherwise agreed upon.

For estimates for advertising, address the UNITED STATES MILLER.

|Entered at the Post-Office at Milwaukee, Wis., as mail matter of the second class.]

MILWAUKEE, AUGUST, 1893.

We respectfully request our readers when they write to persons or firms advertising in this paper, to mention that their advertisement was seen in the UNITED STATES MILLER. You will thereby oblige not only this paper, but

Editorial.

N April 29, Judge Seaman a demurrer to an amended bill serious and immediate consid-Milling Co. The Judge, a few days ago, decided to overrule the demurrer and it is now expected the case will come up for trial early in October. No further suits have been instituted on the part of Russell, as this one is considered a test case, and the outcome will have considerable effect on future action.

ING. CESARE SALDINI, of Milan, Italy, President of the Italian National Association of Milling Engineers, has arrived in this country, and will visit the principal flouring mills at Rochester, N. Y., Buffalo, Milwaukee, Minneapolis, St. Louis and other cities. His object is system in use in this country with a view to an official report to the Association he represents. We trust every facility consistent with the general "good of the order," will be afforded the gentleman, and that in his report will truthfully be embodied the statement that the leading mill-owners of the United States are courteous, accommodating gentlemen, without an exception.

PENNSYLVANIA STATE MILLERS' ASSOCIATION.

HE Fifteenth Annual Convention of the Pennsylvania near Sunbury, Pa., September realize old-time prices.

the committee:

TUESDAY, SEPTEMBER 12TH. AFTERNOON SESSION, 1 O'CLOCK

EVENING SESSION, 7.30 O'CLOCK. EVENING SESSION, 730 O'CLOCK.

Paper, "Practical Use of the Air
Purlifer and Aspirator...R. Ellis
Address,"Corrugations", W. Latiner Small
Paper, "Differential Motion"...E. T. Butler
Address, "Millers" Day at the
Columbian Exposition"....Asher Miner
Paper, "The Advantages of Local Millers" Associations"...J, M. Hayes
Banquet.

WEDNESDAY, SEPTEMBER 13TH. Address, "Separations" ..James Newby Unfinished Business. Some remarks on "Where Are We At"B. F. Isenberg Adjournment.

HOW shall the new crop be moved to market, is, just listened to an argument on now, a question that requires seem to possess sufficient merit to be of practical value. The scheme of certified checks, so often mentioned, is impracticable. The farmer is suspicious of any new method put forth, whereby he is to part with his property without receiving the money therefor or its equivalent-something tangible.

A certified check, payable indefinitely, would, at any time, be looked upon with suspicion, but at the present unsettled state of financial affairs, when banks are failing in every direction, the certified check-particularly as, it is understood, it cannot be realized upon at once but, rather, that we should be -will be refused by the farmer, a thorough investigation of the in exchange for his grain; he would much prefer to trust the buyer, if he has confidence in obliged to sell, he will prefer to of the crop can be financed in him, but, unless the farmer is hold his grain to taking the chances of realizing upon his certified check.

But why be in any haste to move the crop? There, certainly, is no inducement to the farmer; for, with the position the new crop occupies regarding the world's supply, he is master of

12th and 13th. The programme, There certainly is no induce- warning is terrible to contemas published below, embraces ment to the miller; for, an early plate and suggests thought as several interesting features, in- movement, at present prices, to the responsibility. Our comcluding speeches by represent- means a scarcity later on, with ment on this sad occurrence is atives of the craft, a ride up the prices unduly inflated, and with occasioned by a statement made, Susquehanna river, as far as which he must meet the com- according to reports of the local tomary banquet. Following is petition of the English miller, press, by the engineer in charge the programme as arranged by who, having bought our crop at the time of the explosion. forward, at the depressed prices, James A. Minnick, the engineer, can undersell his American said that the boiler was considcompetitor, to such an extent ered unsafe. Such being the that he, the American, is driven case and the fact being known out of the foreign market en- to the man in charge, there was tirely.

The situation is about like this: Present prices are the lowest everknown; the world's supply is deficient; our surplus for export, is the lowest for many years; higher prices are inevitable, for several causes and are likely to advance, first, when our financial affairs resume their normal condition; second, when the large accumulation now held in Chicago, for carrying purposes, begins to move out; third, when our European friends actually realize that our shortage is a fact and not a stock-jobbing canard. Other conditions might be mentioned, tending to show that in the case of J. H. Russell eration. Many suggestions are the longer the crop is held back, against the J.A.B. Kern & Sons offered, but none of them, so far, the more benefit will be derived by all interested in growing and handling the same, in this country and that an early movement will transfer the benefit to the dealers on the other side of the

water. If these premises be true and we believe they are-why be in a hurry to move the crop? An anxious seller is invariably the victim of a waiting buyer. As Mr. Hubbard, then vice-president of the British and Irish Millers Association, stated, at the convention of 1880, at Cincinnati: "If there is any one thing an Englishman likes better than another, it is to buy cheap.

The situation, this year, certainly does not warrant that we should be "anxious sellers, sellers and in no waiting" hurry to see the crop move out at the low prices now ruling.

We believe, therefore, that with the present condition of money matters the movement current funds as rapidly as will be necessary for the general good.

ON another page of this issue resulting in the loss of two human lives besides considerable be held at Hotel Shikellimy, he may reasonably expect to and to be thus suddenly cut "I-told-you-so's" after the endown, without a moment's actment.

no accident (the term usually applied in such events,) in this case. That any such thing as an accident ever occured is questionable, but when negligence is so plainly apparent, as it is acknowledged in this instance, accident is entirely out of the question. The engineer, or man incharge, acknowledges that he knew the boiler to be unsafe, or at least, that it was so considered, presumably by some one whom the engineer thought competent to give judgment in the matter, and yet we find this man using this unsafe and threatening "engine of death," jeoparding life and property to an unknown extent. If the boiler was unsafe, it was the duty of the engineer to so inform the owner and demand its being made safe or replaced with a safe one and, in case of refusal, to refuse to operate the destruction-threatening one and, further than that, refuse to passively permit its being oper-We do not ated by another. intimate the forcible estoppel of another's taking the conscientious engineer's position, but the informing of the proper authorities, in such matters provided, of the existing danger and demanding, in the interest of the public welfare, that the operation of a known menace to life and property be immediately discontinued. The engineer of the Cadwallader mill should have done this and he could then justifiably feel relieved of any responsibility for the result; but having failed to use the precaution which must appear proper to sensible peopeople, we cannot but feel that he is morally guilty of criminal negligence, if not of a greater crime. The fact, if such it be, that he had informed the owner, we publish an account of a only places the owner in a simiboiler explosion at Fostoria, O., lar position to his own and does not remove from him the responsibility of the result. All who had a knowledge of the unproperty. The killed were two safe condition of the exploded young married men, one 27 the boiler, and in whose power a hold his crop for the next four other 34 years of age, both hav- remedy laid, having neglected to six months, or until the gluted markets are relieved, when the markets are relieved.

Correspondence.

The following letters are all from our own special correspondents, and reflect their views and the views of the trade in the location from which they write.]

NEW YORK.

The Financial Situation Still the Controlling Factor in All Markets. Natural Influence have Little Weight. Currency Demanded to Move Wheat With. The Legscy the Wheat Clique Left. The Flour Trade Depression. The Humpty Dumpty of the Flour Trade and

THE flour and grain markets have been under the harrow financial distress another month, with the result of a further break in the record of low prices, both of wheat and flour,

its chief product.

Buying "bargains" has long since lost its charms, since every one purchased, for the last year, could have been duplicated the next day or the day after, for less money. Exporters and home trade alike have had the same experience on a steadily declining market, until both are discouraged and have fallen into the ranks of hand-to-mouth buyers, and they cannot be coaxed or driven out by concessions or bull news. Indeed. bull news has no longer any permanent influence on prices of flour, and an advance in the wheat market, on such news, has no effect on demand or prices of flour. In fact it only effects wheat while the shorts are covering; for the heavy export purchasers of the latter have nearly all been on breaks. which caught orders at reduced limits. Yet it must be admitted that Europe has stood up and faced this long and heavy decline with much more courage and hope in the future of prices than our own trade. This is, of course, due to the absence of such financial pressure there as we have endured here for nearly three months, until it is no longer a question of price, have done more to intensify the or future wants, or prospective higher values, but simply who will take the wheat and pay for it at their own price. This latter has been so low that had to issue certificates. So Europe has been ready to discount her future wants, even in face of bad trade on the other side. At the same time she has have caused a violent panic a shortage in her wheat crop of throughout the country and more or less magnitude to fill, then some Chicago banks, though it is now believed to be less than expected a month ago. Wheat is her best crop however this year, and rye next, her great shortage being in feed of western banks has done more crops and fodder, which she has to depress their produce maralso been providing against by kets than any other occurrence heavy shipments of hay and since the panic set in, and the oats until, for the moment, the west can thank their own finanmarkets on the other side are cial institutions for it, and the glutted, and exporters have banks of New York that the been resellers of the latter here of late, for September delivery of purchases made for that month, nearly \$20,000,000 by the Chicawhich appear to have been go banks in the Cudahy wheat speculation, unless the fodder and provision deals, which the flour market was to break rops are now turning out better than expected, as the wheat the start, and it will be seen that they did more to bring on were selling at \$3.90 and fancy company is dead already. Any crop is doing.

been a good reason for it in the and the habit of foreign buyers has no doubt stimulated dein the situation of financial affairs in this country, which lators, aided and abetted by the have been the controlling in Chicago banks. fluence in our markets the enwill continue to be until the and credits sufficiently restored, so that currency shipments will not be necessary to make purchases of stuff in the west for shipment to the east, as they have been for a week past, since western banks refused to ad-

Some of our larger grain and flour receivers have refused to do this work for the western banks and pay the cost of their currency shipments to the west, on the ground that this was the business of banks and not commission men, and that it was the duty of western banks to do this for their customers, as usual, instead of "lying down" on New York receivers, as they have on New York banks, to provide them currency to do their local business, instead of taking care of themselves by issuing Clearing House certificates as our city banks have done. Especially have the Chicago banks refused their regular shippers their usual facilities for doing busin as in the customary manner, and they crisis than any other locality, at the same time they have been boasting that Chicago banks have neither failed nor could the New York banks have pursued the same selfish and narrow policy; but it would which have been among the biggest borrowers of New York, crisis has not been worse.

Add to this the tying up of

not been a reseller of wheat tensify it, than all the rest of held at \$4.30, at which he worked during all these heavy arrivals the banks of the country put off 15,000 bbls. late last week. of purchases made in the west together, for the other western since before the opening of nav-banks followed them. Had ing at \$4.10@4.15, including igation. There has, of course, they attended to their customers, engaged in legitimate trade, loss on such forward purchases, instead of the gambling cliques, they would have had money of "averaging down" on a break to advance on bills of lading now instead of tied up still by mand as prices kept receding. the failure of Cudahy and his But this has been more than clique in provisions. This is our local bulls could or dare do the legacy left the country by this gang of desperate specu-

This will explain the contintire month, still remain so and ued decline in wheat which dragged flour with it; for it was silver law is repealed, at least, dammed up until the flood carried away the dam and everything below it. Had wheat been allowed to seek a market in its natural channels, at the natural season of the year, this record breaking depression in wheat would have been avoidvance on drafts against bills of ed as it has been in corn and lading, as the movement of oats, of none of which was there crops and produce is usually an excessive crop last year. As a result of this clique manipulation, prices have gone as much below their true level, since May, as they went above it then, and the flour millers of the northwest have been nearly bankrupted by the corner in May, on which they had to settle their short wheat in Chicago, sold against long wheat in their country elevators, and against flour which they had been unable to sell, while they have had to stand the shrinkage on that wheat left in their country elevators and their unsold flour, since the May deal collapsed. Their losses, both ways, have been simply enormous, and had not the milling interests been in a sound condition, before the panic would have been worse with millers than with banks. The trade has had about as hard a row to travel as the millers, both receivers and jobbers, and no wonder the market for flour is dead, for nearly everybody in it has been hurt the past year by losses on stock and bad debts and poor trade. If anyone has made any money, let him hold up his hand. The New York agent of one of the largest millers in Kansas, who sells high grade Kansas flour at the top prices, says, never did milling stocks sell so low would have been the first to in the history of that state. have felt the crash. This action Good paying milling stocks in the history of that state. selling as low as 20c. on the dollar, for cash.

At the close today wheat had got down again on better reports from the yield of spring wheat, lower cables and less export demand on big arrivals on the other side, large Indian shipments and Russian offers, and more rumors of bank troubles in Chicago. The effect on

But Europe is not and has this financial trouble and to in- at \$4.10, while Pillsbury's is Freeman's and the Imperial patents, with \$4.00 bid and \$4.10 asked for the Daisy patents. These now rank next to Pillsbury's, unless Gold Medal comes between, and it is impossible to find what it is selling at. All other grades of spring are neg-lected and weak, down to \$1.90 and under for feeding stuffs, which were bought ahead for export and scarce; yet exporters are no longer in the market, indeed they have disappeared from everything but city mills for the West Indies, in which there has been a better trade for the month at \$3.80@3.85, closing dull and firm. patents are still sold well up and firm at or above the top prices of spring patents. ter flour is generally steady be-cause in light supply, except patents which are a drug at \$3.40@3.70, in bbls.

The City Mills are sold ahead for this month on feed at 80@ 821/c. and are now asking 85c., but the trade kicks. But there is not much western to keep them out. Exporters and some trade east and city are all drawing on New York. Bakers' springs are selling in sacks from \$2.00, for old, to \$2.50 for new, and at \$2.20 @2.65 in bbls., but nobody wants thematthat. Superfinesprings, in sacks, \$1.75, fine springs \$1.65, no grade \$1.55@1.60 with no No. 2 springs offering.

There was a good deal of amusement in the flour trade here on the "Millers' Day" fizzle at the World's Fair, and general satisfaction at that evidence of the fall of the "Northwestern" Humpty Dumpty of the flour trade, who has been allowed by stage manager Palmer to play the clown in his paper, until people have come to regard it as a huge burlesque on trade journalism, and its editorial acrobat as a satire on journalists that would not be tolerated outside the wilds of the northwest.

NEW YORK, Aug. 8, 1893.

BUFFALO.

THERE is talk among the canal forwarders to organize another "Boatman's Association," or something after the combination which went to smithereens two years ago. That was the best transportation combine ever formed in Buffalo and it lasted just two seasons, or 14 months longer than any other since the canal opened. This one is composed of the worst timber in the late defunct with possibly one exception. The fact that Tom Ryan is in it, and several of the attempt to "organize" the canater into anything which will benefit him is too preposterous for sensible consideration.

Millers in Buffalo and Rochester were persistent buyers of No. 1 Northern wheat at 60@61 cents, taking all they could raise money for at those prices and must have a liberal supply on hand. No. 1 Northern sold at 67 cents in 1878 and last year was 85 cents in July. The lowest sale on the last break was 601/2. There was no doubt about its cheapness, it was simply a matter of money; the whole crop would have been purchased if that had been forthcoming. With all the dull times and scarcity of funds there were no sour faces among past ten years. The figures millers. Among the foremost to frown down panicky talk was Mr.George Urban. When everyone was blue he was ready to of system was brought to my furnish unlimited quantities of the true Balm of Gilead. As a philosopher Mr. Urban has always ranked first in Buffalo, a straw, in Chicago, what either but he never came out so strong as during a little controversy between several bankers and grain men the other day. After allowing the grumblers full sway he relieved himself of the following: "Never mind, gentlemen, grass will grow, cattle will fatten, and there will be roast beef next year. The only question is who will get a piece just back of the

times. Nothing like it has been seen here in forty years. Some of draulic canal, which is nearly our grain dealers, who have been on earth since before that time, say they remember when wheat sold for 45@50 cents per bushel, but that was at a time when it cost 50 cents per bushel to transport wheat a distance from Buffalo to New York. Such another want of confidence in the price of wheat has never been witnessed among speculators.

of July, and the way millers jumped for it reminded sellers known. The quality is exceltion, however, is strict and very few cars of it passed No. 2, most falling in as No. 3 X red,

spring wheat than was ever with Simons & Co. for twenty depend upon local newspapers and, things are originer, and struck, was nine months too previous. What a fortune could has really been the head of the to compile statistics which they has really been the head of the to compile statistics which they has really been the head of the to compile statistics which they have been made by the persis- firm. This firm has long en- are paid to keep themselves.

increase in the visible supply and Pennsylvania, visible supply as reported by The figures furnished by these boards are rediculously inac- of past favors. curate and have lost all influence on speculation. The manner in which they are tabulated long disgusted those on the inside and the sooner a few old brick. A large amount of their fogys are replaced by men not too lazy to hustle for information the better it will be for our Boards of Trade. The exchanges are filled with old men who do not keep pace with the strides made by commerce during the past ten years. The figures farce, and while in Duluth a few weeks ago the same lack notice. Bradstreets is about as reliable as the figures furnished by New York, and nobody cares of them say

The Buffalo Electric Light and Power Company, of which Mr. George Urban is presiare negotiating with dent, are negotiating with the Niagara Falls Brush Electric Light Company for the purchase of their plant, and will construct a lighting plant at the Falls equal to any in the world. Buffalo will soon get will get the short ribs and who power and light from the Falls in spite of the short-sighted horns."

There is no doubt we have Tunnel Company. The new passed through troublesome light for Buffalo will come from Schoellkopf & Matthews' hycompleted and is expected to furnish as much power as the

great tunnel. Messrs. Newell & McNiven, brokers, made a ten-strike when they got several of their wealthy customers in the September pork deal, getting them short at about \$23.00. Rival brokers thought they had cut a dog in two and persuaded all but The arrival of new wheat in three to get out as best they this market dates from the 28th could. The "sandy" three carried away \$95,000 as their profits when pork dropped to \$10.25. made to loading canal boats "Bob" immediately put them with fertilizers on their west spring wheat was but little short of lard and increased the bound trip and then loading pile \$21,000 in less than two them with wheat eastward hours. Besides this he made bound. "It is a hindrance to lent, berry perfect and condition dry as a bone. Buffalo inspection, however, is strict and very few cars of it passed No. 2 adding \$8,500 more to the big that effect. How silly! how winnings. This is all right as just like Toledo that remonbut it was mighty good wheat far as it goes but the friends of strance is. Denison B. should and did not wait long for buyers at 58@59c. White wheat was scarce and little demand lings and are advising them to ledo Board of Trade "resolved." for it, in spite of the reports of let good enough alone and not Did he not know that the same damage to that grade. There venture in beyond their necks vessels which took this odorif-

has been my pointer. But let their straightforward dealings, it be understood it was not the coupled with sound judgment. bbls. of flour, besides 10,000,000 visible supply as reported by As a judge of grain Mr. McMulfeet of lumber and an unusually either Chicago or New York. len is one of the best in Buffalo. The firm merits a continuance

The "H. O." building is completed and is the finest structure in that portion of the city. It is a massive four story product is in the lower story and the machinery will be put in as soon as possible.

The John T. Noye Manufac-turing Company has been caught in the financial pressure and badly squeezed. Not that there was a failure, it is simply a case of too much paper; obliging customers, renewing notes, upon which it is very difficult to realize in times like the present. The firm asked an extension, which their creditors readily granted, and the business will go on as usual. The liabilities are \$248,000 and assets fully \$600,000. There isn't the least possible doubt of the firm's solvency under the circumstances. But the firm will now take a different course and not carry too many creditors.

Harvey & Henry will start up their old rye mill as soon as the new crop is fit to use. Rye sold in Buffalo at 50c. last week and will probably go lower.

The Canadian authorities, finding grain going by their doors, concluded to get some of it and it mattered little to them by what means. So the old rebate is being paid, and together with the difference between the Montreal rate and that to New York from Buffalo, gives them the advantage of about 4c. per bushel. Uncle Sam will presently drop down on Johny Canuck and ask him to explain.

Secretary Denison B. Smith, of the Toledo Board of Trade, has been instructed to send a letter to the Buffalo Merchants' Exchange in which objection is erous freight to Toledo brought will be white wheat enough again.

The style of the old firm of back freight to Buffalo as a re-

tent bear from that time when wheat was \$1.02. The steady ter and other mills in this state bling about a dull lake business through Buffalo received nearly 5,000,000 bushels of grain and 3,000,000 bbls. of flour, besides 10,000,000 heavy amount of other freight, besides sending to the west 40,-000 tons of coal. All this in three days! Still the growlers kept growling. But it was ever thus and will continue to be so. The trouble is with excessive tonnage; shipbuilding has been overdone, that's all. When Capt. Frank Perew, the oldest vessel owner on the lakes, sold out and told the buyers of his vessels that there was too much tonnage by 35 per cent, it was time to call a halt, but many big carriers have been built since then. Buffalo has furnished several, the last one being launched two weeks ago, with a capacity nearly up to the largest.

The flour trade has been active in spite of the orders of agents to take only the best customers. The best patents sold down to \$3.85, but later in the month were back to \$4.00. We have seen the bottom no matter how low wheat may go before the first of September.

Millfeed was never in as good demand as it has been during the past month. Prices were advanced \$1.00 per ton after the 10th of this month and did not check buying. Coarse winter bran, sacked, sold at \$15,75 and spring at \$15.00; white middlings \$16.75. Hay is high for the season but nothing in proportion to what it should be with such an active foreign demand. Choice old hay is selling at \$15 and new at \$12@13 per ton.

Grain dealers demanded currency for a few days and would not take checks. This fad did not last long as several were handed bags of silver too heavy to carry and concluded to quit that nonsense. Buffalo business men concluded not to play into the hands of the gamblers in Chicago and bankers furnished the following stamp to their customers: "This check is payable only at the Buffalo Clearing House or in New York exchange."

What has become of our old friend Alex. Mann? Where, O where is this ancient but honorable flour drummer? Several inquiries from millers have been made on 'Change lately. Has he fallen into the snares of the old woman who runs the Northwestern tea-pot?

Mr. George Sandrock, president of the German American Bank, is one of the best baromand to spare, weevil or no Simons & Co. has been changed turn cargo. Perhaps Mr. Smith eters of the financial situation in the universe. When he steps dictions of a lower price for Fred. L. McMullen has been secretaries of Exchanges who dictions of a lower price for Fred. L. McMullen has been dependent to Simons & McMullen has been secretaries of Exchanges who dictions of a lower price for Fred. L. McMullen has been dependent to Simons & McMullen has been secretaries of Exchanges who dictions of a lower price for Fred. L. McMullen has been dependent to Simons & McMullen has been secretaries of Exchanges who dictions of a lower price for Fred. L. McMullen has been dependent to Simons & McMullen has been secretaries of Exchanges who dictions of a lower price for Fred. L. McMullen has been dependent to Simons & McMullen has been dependen spring wheat than was ever with Simons & Co. for twenty depend upon local newspapers air, things are brighter, and him in shape for the mayor's seat next year. "The people's George" must run.

DULUTH.

DURING the whole period of the present financial scare the bank clearings of the leading cities throughout the country as telegraphed to and collected by R. G. Dun & Co. weekly, have shown, in almost every instance a decrease of volume of business of from 10 to 80 per cent. Up to the last report Duluth stood alone in the column of increase and her business generally has been good throughout. No banks have suspended nor business houses failed, and trade in all departments of industry, while seriously hampered by the general depression, has been fairly active. No part of the country can escape the effects of the prevailing calamity and that the institutions in this corner have held up as they have, simply shows a wonderful amount of vitality at the head of the lakes, and is evidence that if the country had been spared the general infliction of distrust, Duluth would have recorded her greatest era of prosperity. As it is, there has been a marked curtailment all along the line. Lake commerce up, has greatly fallen off, while the output in same lines has been practically suspended. The flouring mills have suffered in the stagnation, running unevenly and under light pressure. In July but 39,049 bbls. were turned out in the same month, last year, Duluth has a record of 87,955 bbls. During the past two weeks the output in Duluth has been in the neighborhood of 25,000. There is absolutely nothing to encourage the manufacture of flour. The highway robbery of exchange that has been inaugurated by the banks is almost prohibitive of any trade. A business that is run close and done on a small margin of profit cannot pay the present rate of \$35,00 a thousand on New York exchange, as demanded. High ocean freight rates have tended to discourage much export business, and the lack of currency seems to be the principal blocking factor in the domestic centres. Millers are hopeful that the congressional mill at Washington will soon go beyond the chaff of party politics and devise some means of relief. In this hope and the arrival of large sums of gold from Europe is based a brighter outlook for the future.

The demand for feed continues active and orders are ing the market one way or the booked well in advance and other and are perhaps the most bran finds ready sale at \$11.50 reliable of any that have yet per ton and red dog ranges in been collected and announced. It is been to the story is untrue and facts are exaggerated. There companies were turned over to been collected and announced.

him. His friends are getting 200 th. sacks at \$12.00@\$12.25

per ton.

July last year, as shown by the report of Secretary Welles of the Duluth Board of Trade, were as follows: 1802 1893. four produced, Duluth, parrels lour produced, Superior, barrels, 59,049 87,955 19,164 548,798 560,128 2,485,489 2,397,435 (39,887 barrels.
Flour received, barrels.
Wheat, bashels.
Corn bushels.
Onts, bashels.
Rve, bushels.
Burley, bushels.
Flax seed, bushels.

grain for July, 1893, as compared with July, 1892, were as follows:

Flour, bbls..... Whent, bushels Corn, hushels Oats, bushels Rye, bushels Barley, bushels Flax seed, bushels

in history during the past annual installments. month. Wheat receipts, under As soon as these s responding week last year.

territory, and compiled by the itors." in fair condition and ready for any duplicate certificates isreports there will certainly be

There appeared a few days ago in a New York paper, a The production and receipts highly sensational story purof flour, and receipts of grain porting to have been telegrahed during July, as compared with from Boston, concerning an alleged fraudulent deal on the part of the Northern Pacific Elevator Co. of Minnesota. The story was, in brief, that certain officers of the company issued \$1,500,000 worth of forged duplicate certificates for grain in storage in country elevators, whereby 73 banking institu-tions of New England were 8,600 victimized. The forged certif-The shipments of flour and icates, it was alleged, were deposited with the Eastern banks as collateral, some \$800,000 in New England and the rest in New York City. The stockholders, the story was, were dumfounded when the facts came to their notice and offers ss of settlement with the banks The production of flour for were made, and terms of comthe first half of the month has promise offered. The company, been in excess of that for the the story has it, was then recorresponding period in July, organized as the Lake Superior and the output for August will Elevator Co. with Geo. Cooksey, materially exceed that of July, of the David Dows Co., New The wheat market, in touch York, as president. The terms with the market in other offered the banks, it was ascentres, is still weak and slug-serted, were 60 per cent cash, gish, falling to the lowest point and the balance to be paid in

As soon as these stories apall the circumstances, for the peared, I called on the general past week or two have been officers of the company to ascerquite heavy, last week amount- tain the truth of the matter, ing to 300,000, bushels against and whether the truth was told had 100,000 bushels left which 450,000 the week before, and or not, I do not say, but give a 320,000 bushels for the corbrief condensation of their responding week last year statements: M. J. Forbes re-Country elevators contain con-ceiver of the company, being siderable wheat yet and the out of the city could not be movement will be fairly active seen, Col. C. H. Graves, who is up to the time when the new in a position to know the inside

everywhere, about \$1,000,000 of the Company's paper, for which the banks held about 60 per cent collateral in the way of warehouse receipts. This paper is endorsed by the Lake Su-perior Elevator Co., which concern owns a million dollar plant in Duluth, and whose stockholders are liable for a million more and are able to pay it. The Eastern banks are not only protected in ample manner, but are satisfied with the situation. At the time when these warehouse certificates were issued there was a bushel of wheat in the country behind every bushel called for in the certificates; but the Duluth managers of the Elevator Co. lost \$250,000, margining wheat in Chicago, when it advanced 12 cents on them and, in order to protect themselves from loss, they sold on the Duluth Board of Trade 518,000 bushels, of the actual wheat which had been shipped them to Duluth, credited the money upon the books and squared the Chicago loss-

"It was these losses that forced the company into a receiver's hands, precipitated by attachments of Canadian banks, which attachments were afterwards waived. After selling 518,000 bushels the Duluth managers of the Elevator Co. they turned over to the re-

ceiver.'

That was the situation and story two or three weeks ago. In the United States court on August 8, George Spencer of this city was appointed receiver crops begin to move. Stocks history of the matter said: of the Union Improvment and this city and something like of wheat showed a decrease "There have been no forged or Lake Superior Elevator Com-100,000 across the bay. During last week of 431,247 bushels as duplicate certificates issued. panies, a bond being filed of compared with an increase of The only part of the story that \$100,000 in each case. This was 45,502 bushels for the cor- is true is that the Northern Pa- the outcome of a suit brought cific Elevator Co. has failed, and by George L. Stebbins against The reports issued by the that the Lake Superior Ele-the Union Improvement Co. numerous agents of the North- vator Co., owning a considerable to recover \$90,000 due on a ern Pacific railroad, along the amount of the stock, has made promissory note given by the line passing through the grain propositions to pay the cred-Northern Pacific Elevator Co., dated May 8, '93, for 30 days, general freight department, for George Spencer, President of the note was endorsed by both the week ending Saturday, the Lake Superior Company Companies. The other action Aug. 5, showed the crop to be said: "There have not been is by Stebbins against the Lake Superior Elevator Co. the reaper about Monday the sued; that part of the story is \$50,000, on the same conditions 14th inst. These reports em- untrue. Neither have any suits as the other note. It was braced the fields along the line been begun by Eastern banks. alleged in these suits that the of the road in Minnesota and There is not a word of truth in Lake Superior Elevator Co.'s North Dakota. The estimates the Boston story. The work of property does not exceed in of the probable yield varied from 10 to 20 bushels per acre

Pacific Elevator Co., is proceeding the superior sheet to sheet and property does not exceed in reorganizing the Northern value \$900,000 while its liabilities amount to \$1,400,000; that upon the different divisions. ing and it is expected that it the value of the Union Improvement Co.'s property does not T. L. Cardin, Manager of the exceed \$400,000, while its liabilover three-fourths of an aver- Minneapolis end of the North- ities are over \$1,000,000. It was age crop of a very superior crn Pacific Elevator Co.'s busicharged in each suit that the quality of wheat, which (considering the wet and back-unfortunate that this untrue by warehouse receipts. A ward spring, the intense heat and absurd story should be number of creditors threatened and mid-summer drought) is a printed at this time, as every-better result than had been thing is progressing satisfac-expected. These reports were torily toward a settlement of alizing on his claims. Mr. not compiled in view of affect- troubles into which the com- Spencer was directed to collect

In explanation of all the Companies, Receiver Spencer has given the following state-

"The Lake Superior Elevator Company and the Union Improvement and Elevator Company are the owners of all the terminal warehouses at Duluth. They have been involved for some time by reason of the failure of the Northern D of the failure of the Northern Pa-cific Elevator Company and the Red River Valley Elevator Com-pany. These last named companies Red River Valley Elevator Company. These last named companies went into the hands of a receiver in June. For some time past negotiations have been pending for a reorganization of these companies, and substantially all the stockholders and creditors of the companies have approved the reorganization. However, two or three of the smaller creditors of the companies have been threatening to institute suits and attach the elevator plants, and consequently this application for a receiver was made with a view of preventing any creditor getting an improper advantage or preference over the others."

ttor getting an improper advantage or preference over the others."
"The receiver is directed to con-tinue the business of storing grain as usual, so that the appointment of a receiver will in no way inter-rupt business, but will, on the con-trary, insure the continuence free rupt business, but will, on the con-trary, insure the continuance free from annoyance by any creditor. The appointment of the receiver does not affect the warehouse re-ceipts of the company in any way, as the grain in store in the houses is not included in the assets of the company which pays to the receiver and the creditors of the company have no claim upon it. The receiver is directed to honor warehouse re-ceipts as usual and to continue the business in all respects as it has been conducted in the past. The only change there will be in the conduct of the business in future will be that it will be managed by the receiver instead of the officers of the two companies. But as Mr. Spencer has for some time been the managing officer of both concerns it is apparent that the change will it is apparent that the change will be more formal than otherwise. be more formal than the wise Megotiations for the reorganization of the terminal and country companies is progressing satisfactorily, so that it is probable that the receivership will be merely of a temporary character.

Mr. Forbes, of the companies, in commenting on the above said: "The receivership will in nowise affect the business of the companies in Duluth. It will go on just as before and in the same hands, for Mr. Spencer, the receiver, was the executive officer of the company. The new move has no effect on the present status of the North-ern Pacific and Red River Com-

panies.

The Minnesota State Elevator, voted to be built at the expense of the public, is having about as much trouble as the proprietor of a weary Midway oriental dance-house. latest phase is an injunction served on the warehouse commission restraining them from proceeding and compelling them to show cause why they should not desist from the scheme entirely. In accordance with the original plan the commission selected a site here and for bids for building the elevator. These bids were opened and it was found that R. K. inspire weak-kneed concerns, O'Neil, of St. Louis, was the and Superior is glad to acknowl-

complications of these Elevator \$198,700. Three Chicago firms tor in her industrial make-up were bidders; the Heidenrich In July they turned out 99,000 Company bid \$242,000; the bbls of flour, and for the pres-Metcalf-McDonald Co., \$239,000; ent month the output will be \$237,000. No sooner was the very weak and the wheels are contract awarded than an in- turning against a decidedly adjunction was served. plaintiff is Henry Rippe, of Fair- real panic can wholly drive peomont, Martin County. A tem- ple out of the notion of eating, porary injunction was issued The output from the head of and will be argued before Judge the lakes for the past four Kelley, Aug. 16. Rippe runs an weeks, and from the date of my elevatorat Fairmont and claims last letter, with comparisons, that on account of his being was as follows: compelled to pay inspection fees, and the fact that the elevator is to be built from these fees, it is taxing one class of citizens to erect a public building which will enter into competition with and injure them in their business, which, he says, is unconstitutional. He calls attention to the law which created the grain and warehouse commission and provided that the fee should be no larger than was necessary to keep up the force, and says the action is in violation of that as well as of the constitution. He recites the fact that there the committee proposes, not only to use this but to incur a debt of \$150,000 in the erection of the warehouse, which he and others in his line of business will be taxed, through the inspection fees, to pay.

Members of the warehouse commission, who have been in the city during the past week, state that they will fight the injunction to the end, and that they will build the granger elevator unless stopped by force. There is not much doubt but what this venture will have | ment in lake freights, and shipa troublous time of it before it pers have abundant offers at is in shape to receive the farmthere will ever be any afterward.

It is announced that A. business, the Sawyer interests the business, and there is no The business will be retiring. continued.

The Duluth roller mill is to start up after an idleness of New York exchange are now three months. F. A. Gooding held to be largely responsible formerly connected with the yet there are none more sanhouse. H. P. Gill will super-H. F. J. intend.

DULUTH, Aug. 12.

SUPERIOR.

business, are not only in a healthful condition, but are running and giving employ-

lowest bidder, his bid being edge them as the strongest fac-J. I. Moulton & Son, greater. The demand is still

Output, Exports, 1892, 1558, 1

One or two of the new mills will be running during the latter weeks of this month, and by the 1st of September, all of them, as it is now expected, will be in operation. With the revival of business this fall, and the mills here running to anything near their combined capacity, Superior will be about the liveliest flouring center in the country. The wisdom of building those mills here instead of placing them at Minin the fund in April, and that neapolis or some other interior more apparent as the low freight rates by lake are considered. The advantage of location is about equal to a fair profit on the business which, in these times, is worth considering. There is no intention on the part of any of the mills to shut down, but on the contrary the volume of trade from now on, despite the hard times, will be increased rather than curtailed.

There has been no improve-11/2c a bushel to Buffalo; and ers grain, and afterward, if 234c to Kingston. The charges east of Buffalo are about four times greater than from Superior to that city. Even at these Sawyer & Co. will discontinue low rates vessels are begging prospects for any change for the better. The scarcity of cur-rency and the high rates for New York exchange are now for the embargo on business, Van Dusen-Harrington grain guine of better times in the is evidenced by their continued business and preparations for increasing the output.

The report of the grain in-spector and weigher, of the cars A MONG the other things to inspected on the various rail-

meeting recently to hear a proposition from J. J. Atkinson to furnish a sample room and market quotations for \$100 a month, provided the business should be done in the Breunig Block. The question was referred to a committee consist-The verse wind, yet no artificial or ing of E. E. Barton, L. R. Hurd f Fair-real panic can wholly drive peoterm-ple out of the notion of eating. part of this month.

The Duluth Board of Trade. at a recent meeting, considered the Superior Belt Line elevator, and the warehouse was made regular, the bonds of the company being approved. Grain receipts for wheat stored in elevator "M" and warehouse "N" (Harrington houses) were made regular for delivery on

the Duluth board.

Recent reports from the crops in this locality are to the effect that wheat, oats and barley ar. a light crop. Rains have relieved the continued drought but corn and potatoes were pretty badly affected. rains of the past few days have been general over northern Wisconsin and of great benefit.

All the inside work on the Grand Republic mill has been completed, and the millwrights have disappeared. The engines are in place and the mill is practically ready for business. Work on the elevator is being pushed rapidly, and the mill would have been running before Aug. 15 if there had been no delay in procuring material for the elevator.

Inspector Nelson, who has charge of the branch office, on this side of the bay, of the Minnesota inspection bureau, said, with reference to grain receipts: "Wheat is coming in quite lively, the elevators receiving about 300 cars a day of fine hard wheat. I do not think the spring wheat crop will be over 70,000,000 bushels this season; I think Mr. Pillsbury's estimate is too high."

A. W. Wilkins, secretary of the Anchor Milling Co., is now located permanently in Superior, having come recently from Milwaukee, where for a long while he had been engaged in the grain trade with Augus,

Smith & Co.

The three new flouring mills - all immense, thoroughly equipped institutions-will be ready to begin grinding this month. These industries run the year around and will directly and indirectly give employment to a large force of men. Their inauguration into the grinding business will be hailed with especial satisfaction by citizens generally.

Capt. James Davidson, of Bay

and in the dulled season of the is preparing to add to the ton-His son-in-law, G. A. Tomlinson, is stationed at the charters here.

Capt. Alex. McDougall, of the whalebacks, was asked about the future operations of his company, and stated that operations would be resumed at the yards and carried on actively during the winter. By the time spring trade opens several whalebacks will have been added to the fleet.

Several hundred men are employed at the flour sheds, and more flour was handled last month than during any pre-vious month this season. Collector Shield's report of the port of Superior for July was in part as follows: Arrivals and clearances, 284; total tonnage, 381, 530; shipments of wheat, 680, 982 bushels; other grain, 7,500 bushels; flour shipments, 493,-615 barrels; ore shipped, 22,720 tons; shipments of bran, 21,645 sacks; copper matte, 1,230 tonu; wool, 50 tons, and lumber, 2,775,-000 feet. There were 18 foreign arrivals; total tonnage, 17,906. Wheat shipments, 526,792 bushels; flour shipments, 1,750 bar-

The receipts were: Coal, 217,-284 tons; salt, 3,000 barrels; sugar, 1,650 barrels; stone, 1,000 tons; railroad ties, 48,000; building paper, 57 tons; cargoes of merchandise, 23; steel plate, 225 tons; bar iron, 2,640 tons; cement, 1,500 barrels.

During the past week there has been something of an exodus of idle men westward to the harvest fields, yet the low wages offered, and the absence of material concessions on the part of the railroads have had a tendency to reduce the usual number which goes out at about this time of the year. The Great Northern road has just issued notice of a harvest excursion of one fare for the round trip from the head of the lakes, plus \$2. The Northern Pacific road also announces excursion rates to points in Minnesota, west of and including Wadena, Fergus Falls and Breckenridge; also to all stations on its line in North Dakota and Manitoba for one fare plus \$2, round trip. Tickets are limited to 20 days from date of sale; stop-over going and continuous trip returning. report comes that 5,000 men are needed in the harvest fields, and it is .charged that a considerable number of the big army of unemployed in this city will go forward. Men who have been earning from five to ten dollars a day seem to hesitate about going out to harvest at \$1.50 and paying their expenses en route.

Northern boats brought from of advertising in this Journal quiries will be cheerfully answered by the editor of this penses en route.

Northern boats brought from of advertising in this Journal quiries will be cheerfully answered by the editor of this penses en route.

and in the dulled season of the Harvesting in the Red River is a big load. Last year there past decade, and at a time when Valley will begin in earnest were 2,000 tons of binding his own boats are unable to this week, and the latest retwine; this year, none. find profitable employment he ports from there agree that the The Freeman mill made its per acre. One of the serious out especial effort. questions is going to be ready cash with which to move the and in Duluth on Monday abundance of ready currency, tive dates, was as follows and the present outlook is not a very promising one that it will be in circulation or obtainable. At present this question presents more uncertainties than the weather.

Thursday of last week, Aug. 10, W. B. Thompkins fell in an elevator bin in annex "L" of instantly killed. He was an Inman Line. There is a war on employe of the General Fire Quotations of rates on export standing on a plank which Leith and Bristol, 36.57c; Glasbroke. He lived at Brookville, gow, 38.89c; Amsterdam, 38c.

T. P. Benton & Son, of La Crosse, are doing the electric light wiring for the Listman mill and Cargill elevators.

pany has sailed from England on his return trip and is expected in Superior this week.

Charles Siegel has left the Lake Superior mill where he has held the position of second miller since the mill started, and has gone to Kansas City to take charge of the J. B. M. Kehlor mill.

The Great Northern and Northern Pacific railroads have issued the following circular to the commission merchants and grain receivers at the head of the lakes: "Commencing Aug. 1, all charges on grain arriving over the above lines will be collected direct from the party actually receiving shipments, i. e., charges on grain delivered to elevators, mills, or other industries direct, instead of, as heretofore, from the original consignees."

This action was anticipated and had been thoroughly discussed by the dealers here.

Business has been so light in the way of water shipments by the shippers.

average yield will be better than best run last week, turning out was at first anticipated. In 10,786 barrels of flour. The mill some of the fields, where thresh- was built with a nominal cahead of the lakes, looking after ing has been finished, the yield pacity of 1500 barrels a day; it has been from 22 to 25 bushels can turn out 1,700 barrels with-

> Grain in store at Superior This will require an morning last and on compara-

HAC GHICE, M.	aa aa	TOTTO 44 S	4
	Aug 7,	July 29, A	
	bus.	bus.	bus.
No. 1 hard	131,954	129,333	157,553
No. 1 northern.	3,993,262	4,388,400	1,384,919
No. 2 northern	112,823	139,580	603,310
No. 3 spring	3,289	12.924	97,076
No grade	10,631	8,764	531,967
Rejected and con-		DD 444	99,801
denined	33,349	37,191	
Special bin	41,351	41,654	74,399

The Smith-Fee Towing Co. the Lake Superior Terminal has recently entered the busi-Company's elevator and was ness in competition with the

Extinguisher Co., putting in flour, through shipment, at this automatic sprinklers in that writing are in cents per 100 lbs.: system of elevators, and was London and Liverpool, 35.23c;

J.F.H. SUPERIOR, Aug. 14.

SKILL IN MILLING.

Ever since roller milling Manager J. S. Miller, of the began to make progress in this Russell & Miller Milling comcity of skilled head millers, that is to say, of millers with practical knowledge of the work expected of them. The milling examinations in connection with the City and Guilds of London Institute, were expected to furnish a supply of the material wanting; but unfortunatly, owing to one or two failures in the early days of roller milling, it has been the custom to ridicule the pretensions of those applicants for positions as foremen or roller men who come armed with a certificate or even with a silver medal, gained at these examinations. What was wanted nat-urally was a combination of practical and theoretical knowledge of flour making, and of the new flour milling machinery. Theoretical knowledge was attainable by reading technical articles in the milling press, and by diligent study of the catalogues of milling engineers; but where was the practical study to come from in the years 1880 to 1882, when, in from the head of the lakes for fact, there were few if any masthe past month that those au- ters of the art to teach the stutocrats of commerce-lake cap- dent? We well remember that tains-will now speak to flour- a certain miller 10 or 12 years ing mill men, and will occasion- ago had erected for him a comally go so far as to be accomplete plant on the roller system. modating to them in the matter. Not a man in the mill had ever of shifting boats, loading, etc. seen a roller mill or a purifier and Hoisington offers equally This is a change from flush at work, and at the last mo- as good inducements as a lotimes very much appreciated ment avowed their inabilication. Reader, if you know ty to run the mill. Their mas- of anyone wanting to locate
There is also a light up ter could not teach his men, so such a mill, by all means tell freight. Last year the Great he was driven to the necessity him of Hoisington. All in-

staff required, we believe, but his wages sheet presented a very different complection to those of the pre-roller days. What we wish to deprecate, however, is the fashion of decrying the results of the milling examinations and the system of theoretical teaching in general for millers. We personally know of several cases in which successful students of these examinations have turned out to be very capable millers, far and away above the miller with practice and no theory; of course there were some failures, especially in cases where too much was expected by master millers, ignorant themselves of what was Total wheat. 4.326,659 4,757,908 2,840,025 required; but these failures are now few and far between, for it is within the reach of every student to pass an apprenticeship in mills actually at work, and the practical knowledge thus gained, added to his theoretical knowledge obtained whilst studying for the milling examination, places him on quite a distinct level to that of the milling operative, or fore man of the old stone mills.-Millers Gazette, London.

HOISINGTON, KAN., NEEDS A FLOURING MILL.

It is something strange that a first class flouring mill has not been located in this city before this. The only reason we know of why one has not, is that our people have been negligent in the matter and have not let the world know of the inducements this location offers. To those who are unacquainted with our surroundings we will state that Hoisington is a young and growing town of 800 people, located at the centre of one of the best grain producing counties in the state, a county that every year ranks from first to fifth in the rank of wheat producing counties. From five hundred to a thousand carloads of wheat are shipped from this station annually and more is being produced each succeeding year, every bit of which should be marketed in a manufactured state. What we need is a large mill, one with a daily capacity of not less than 250 barrels, and we are confident that the investment would prove a profitable one for the owners. At Great Bend, just ten miles from Hoisington, flouring mills, consuming over 700,000 bushels of grain annually, are run with great succes to their owners,

FLOUR FUTURES.

It seems reasonable when a trade gets down to where it comes to a standstill, that some means should be devised to pull it out of the chaos circumstances have placed it in, and that seems to be where the flour means should be devised, to so care for it, that there will be no need of such liquidation generally resorted to, in order to reach rock bottom, and all that trade is now. different interests, working together for a mutual purpose of extricating ourselves from the hole we have been put in, and by adopting a system of grad-ing that will permit the sclling of flour contracts for distant delivery. We will help all interested in the trade, from the jobber, receiver and the miller, and last but not least the railroads, as by this means they will double their income from the flour trade.

The jobber will be benefited, in as much as he will be in a position to buy his flour for cash, as he will receive documents that will afford him the opportunity to negotiate his own loans. It will help the receiver as he can make his deliveries and collect for same promptly, and turn his capital quicker and oftener. It will help the miller for the reason that he can make his sales either for cash, or if he sells for future, the price will follow the premium now paid on wheat, which does not exist now, and as to the railroads, by affording the proper facilities, and issuing such certificates on surrender of bills of lading and other papers as will be necessary to carry title on the goods, will bring forward an accumulation that may test their already enormous room, but which they can readily in-crease, and by it afford a market that will attract the buyers of the world.

As to establishing the proper grades there is no possible trouble, and I venture to say that flour graded by a corps of expert inspectors, will result fully as satisfactory as the usual run of any mill can be, as they get off grade once in a while, and will be called to come up or their grade will be cut down. The scheme is feasible, is worth a trial, and should be attended to at once. ley on the bevel gear shaft.

There is a rumor supposed to come from Washington, that cereals, whether milled or unmilled, coming into Germany from the United States, and this duty I am given to understand is considerably less than that levied on Russian cereals, and that before the reduction was made the tariff was about 190.

able, the paddles made 8% revolutions of several to sell at harwest. The condition of the ground has been such that in the drought areas even with an the droug the duty is now the same on

present.

that many German bakers are already using American flour purposes and placer mining. to advantage, and that an exhibit of cereals is to take place what course to pursue in the at Mayance in August. Now, construction of his machines, We have had a let us get up our grades, for but he will probably manufacis required will be such facili- should be called at once, and a ties as can be afforded by the committee appointed to draw such rules as will permit us to make a start, at the earliest, possible moment.—Janvier Le Duc in Produce Exchange Reporter.

A NEW WATER POWER.

The Minneapolis Journal of August 3 says: I. R. Beery, who has been with the Union the Columbia river in Oregon Debenture Company for a number of years, has completed an invention that is destined to revolutionize many of the methods at present employed in utilizing water power. The inven tion is a water wheel that is constructed on so easy and sim- belt that have as yet prepared ple a plan that it seems a mar- any land for fall wheat. It is imvel it has not been thought of possible at the present time to half past, but it was only about so far we have had no indicaset in motion. The present the present time to put it out equilateral triangles. Each ting against it.

three times as great as it is at the wheel and the power obtained can be put are many, but The information also comes the main idea is to use it in western streams for irrigating

Mr. Beery has not yet decided water course, is portable and comparatively inexpensive, while the power can be applied to almost any use desired. Mr. Beery conceived the idea while watching the rapid current of the Snake river in Oregon, and has been working on the design ever since. Twelve or fifteen machines have already been ordered for use in Idaho and on and the construction of these will commence at once. The patent has been applied for.

CROP EXPERT PRIME says: Kansas and Missouri are the only States in the winter wheat before. Mr. Beery has had the turn a furrow in the drought idea in mind for a year and a areas. The nights are cool, but two months ago that the first tions of an early frost. Corn machine was completed and needs at least three weeks from machine was put in place yes- of danger from frost. The rains terday, and heavy cables used of the week have been entirely to make it fast to the shore. It of a local character, and where is constructed of three boats or they have fallen have done but floats, made of heavy timbers. very little good. Pastures are These floats are shaped like very dry; in fact, burnt up, and catamarans, about 18 feet long, in the drought areas farmers 5 feet deep and 12 inches thick, everywhere are feeding hay and placed in parallel positions cutting up their green corn. about 10 feet apart and fastened The season is so far advanced together by timbers. On these in the winter wheat belt that boats are placed heavily braced farmers are now pushing their bearings, about a foot high, to threshing. The weather is now receive the central shaft on very favorable for it, and fully which the paddles revolve. At three-fourths of the crop has each side of the central float now been threshed. There is are the paddle wheels, which no change to report with regard are built on two strongly braced to the movement of the crop, iron frames in the form of finances and low prices opera-The spring wheel has three paddles, 4 by wheat States the last week have 8 feet, arranged so that they had fine weather for harvesting, enter the water alternately, thus and all reports go to show that giving continuous power. The the bulk of the crop has been central shaft has a large cog sefely secured without rain, wheel which engages a small There seems to be a great deal beveled cog wheel by which of doubt as to the movement of the number of revolutions is the crop. Necessity, of course, multiplied by 13. Power is will compel more spring wheat transmitted by a grooved pul- to move in proportion than winter wheat, as farmers in the In the trial made yesterday spring wheat areas depend so afternoon under circumstances much upon one crop, whereas which were not the most favor- winter wheat farmers have the able, the paddles made 8% rev-choice of several to sell at har-\$2,000; partly insured.

serious and irreparable damage to corn from the long continued drought. When we get into the States out of the real drought area, we find them more or less spotted. We have not had one general rain this season.

CAUSE OF FINANCIAL CRISES.

A writer in the Chicago Inter-Ocean in explaining the disappearance of gold in this country goes into the question of financial trouble as follows: The commencement of this trouble dates back to the time when the democratic platform was created and published to the world at Chicago. It was a 'free-trade' platform and under it the party received such a tremendous majority at the polls that the great financial men of Europe at once came to the conclusion that 'free trade' in the near future would be an established fact in this country. Therefore, knowing that the certain effect of free trade would be to materially reduce the value of all commodities, and bonds, securities, and stocks, they commenced to unload these stocks and bonds upon our market and we were compelled to buy and pay for them in gold. Now, this is what has become of a large amount of our gold and brought about the present crisis, and any attempted solution of this matter excepting on the line indicated is nonsense.

MARK LANE REVIEW.

The Mark Lane Express, in its weekly review of the British grain trade says: Five million out of the estimated yield of 7,000,000 quarters of British wheat have been garnered. The remaining 2,000,000 quarters which are yet to be gathered in the North of England, Scotland and Ireland will be above the average superior quality. The sunny weather that has prevailed for three weeks has increased the milling value of English wheat almost everywhere. This is likely to produce a good demand for English wheat at the expense of the imported grain. Millers will endeavor to buy up the bulk of the crop at from 28s to 29s per quar, but if the owners holdout for a minimum of 30s this last figure will aled. The remaining 2,000,000 quarters imum of 30s this last figure will almost certainly be the average October value. The prices lately ber value. The prices lately recorded have been needlessly low. Much Much red wheat has sold at from 26s to 28s, and white at from 28s to 31s. American and Indian wheats are again 6d lower, large American shipments forcing the decline. The shipments forcing the decline. The continental inquiry for Australian and Argentine red winter freshened greatly during the week. Russia's attitude in the customs war with Germany is firmer than it was expected it would be. New wheat of fine quality is well held. The spring trade is dearer for oats, and cheaper for pulse, corn and barley.

Ar Maiden Rock, Wis., August 15, Lister Bros.' mill was burned. Loss,

ALL KINDS.

The strength of a horse is equal, on an average, to that of 7½ men.

WILD Eyed Man -- I want some with ryed char-i want some southing syrup, quick!
Druggist- What sized bottle?
Wild Eyed Man-Bottle! I want a keg. It's twins.-N. Y. Weekly.

THE Jefferson Milling Company capital \$50,000, has been chartered capital \$50,000, has been chartered at Jefferson, Texas, by R. C. Hawley and associates, to erect a flouring

In India 25,000,000 acres are made In India 23,000,000 acres are made fruitful by irrigation. In Egypt there are about 6,000,000 acres, and in Europe about 5,000,000. The United States has about 4,000,000 acres of irrigated lands.

Ir took 80,000 men seven years to Took 80,000 men seven years to erect King Solomon's temple. The great 21-story Masonic Temple in Chicago, which is nearly three times the height of King Solomon's, was run up in two years by less than 1000 men.

THE United States has more merchant vessels, including those on the inland waters as well as those on the ocean, than any other nation. The figures are: United States, 24,383, Great Britain, 21,543, France, 15,047, Norway, 4371, Germany, 3,639.

THE United States produces 2,200 THE United States produces 2.500 pounds of grain to each inhabitant; Denmark, 2.005; Canada, 1.500; Russia, 1.200; Roumania, 1.150; Spain, 1.100; France, 900; Sweden, 980; Argentine Republic, 850; Australia, 760; Germany, 700; Belgium, 600; Portugal, 550; Ireland, 500; Scotland, 490; England, 360.

THE arms of a fly-wheel moving at a great velocity encounter high resistance from the air, and good results have followed from covering them so that they present only a smooth flat disk to the atmosphere. A fly-wheel so covered is also much safer in the event of accidentally falling near it.—The Engineer, N. Y. City.

WAGES in Massachusetts average \$1.70 to every dollar in England, and cost of the same style of living is \$1.17 in Massachusetts to every dollar in England. Count wages and costs, and the Massachusetts workman gets \$1.45 to every dollar the English workman gets, both living alike and each paying the living alike and each paying the prices of his ow a country.

THE number of sea-going vessels belonging to the merchant marine of each of the leading five nations, and the tonnage of the vessels (counting no sailing vessels of less than 50 tons and no steamer of less than 100 tons), is as follows: Great Britain. 16,374. 12,715,137; United States, 3867, 2085,072; Germany, 24v1, 1,787,520; Norway, 3888, 1,736,144; France, 2329, 1,127,473.

THE Coatsworth elevator, situated on Michigan and Ganson street, ated on Michigan and Ganson street, Buffalo, N. Y., having a capacity of 1,200,000 bushels and valued at \$750,000, was totally destroyed by fire August 15. The elevator was one of the largest in the city, but had not been used much recently, repairs and improvements being in progress on it. At the time of the fire it did not contain more than 20,000 bushels of grain. Loss \$800,-000, covered by insurance.

To prevent the slipping of driving belts the Mineralized Rubber ing belts the Mineralized Rubber Company of New York, recommends the use of india-rubber bands, grooved on the face which passes over the pulley, and that the rim of the latter be covered with serrated india-rubber. It is stated that, by this means, not only is slipping prevented but as the belt runs over an elastic surface, friction is lessened, wear prevented and the life of the belt accordingly prolonged. prolonged.

A natural element by which the city of Boise, Idaho, derives a great benefit, is a great volume of hot water that gushes out of several deep artesian wells. The water possesses no medical value, but a 6-inch pipe has been laid from the springs into the city, and hot water will be conducted into nearly every will be conducted into nearly every residence and business house in the city. The cost of heating with hot water is estimated to be 50 per cent less than coal.

A receiver has been appointed for A receiver has been appointed for the Avery Stamping Company, of Cleveland, Ohio, on the application of the Junction Iron Company, of Steubenville. The total assets are estimated at \$400,000 and the liabil-ities about \$300,000. The amount of the Junction Iron Company's claim is \$36,414.66 for iron and steel fur-nished and while the company arnished, and, while the company are perfectly solvent, the appointment of a receiver was consented to by the Avery Stamping Company, in order to avoid being compelled to make an assignment.

make an assignment.

The circulation of money per capita in the United States, according to the June statement issued by the Treasury Department, is \$2.388. The total circulation is \$1.596,151,001, which is a decrease during May of \$2,870,434. The circulation a year ago was \$1,620,010,220. The amount of money now in the Treasury is \$542,707,589, and the amount of money and bullion \$727,638,015. The greatest change in circulation during May was in gold certificates, which was reduced \$3,802,660, and in the Treasury notes issued under the Sherman Act, which increased \$3,726,080. which increased \$3,726,080.

ABOUT 12,000,000 people in Mexico theory results and the state of the republic is about 75,000,000 bushels, in fair crop years, a little more than the crop of Tennessee. In 1862 the Mexican crop failed, the tariff on corn was reduced 75 per cent, to save the people from starvation, and not less than 12,000,000 bushels were imported from the United States. A removal of the high duty would make an excellent market for our corn in the neighboring republic.

"I have just been figuring up what it will cost me to have an inwention patented throughout the world," said a young Kansas City inventor, "and I have found out. It takes a fortune. There are on this mundane sphere 64 governments that run departments devoted to descine the contract of fleecing the poor inventor, and pre-tend to give his idea protection. Sixteen of these sharks are to be found in Europe, eight in Africa, four in Asia, twenty-seven are on the two continents of America and nine are in Oceanica. Of course the charges differ in every case; some are comparatively small, others are not so small. In the aggregate they average about \$227.35 each or a grand total of \$14,550. That's a pretty sum for a man to spend to keep an idea from being stolen."-National Car and Locomotive Builder.

NIAGARA Falls plunges from a huge elevation by reason of its inability to remain on the sharp edge of a precipice several feet higher than the point to which the falls are now falling. This causes a noise to make its appearance, and a thick mist, composed of minute particles of wetness, rises to its full height and comes down afterwards. Words are inadequate to show here. Words are inadequate to show here, even with a powerful large press, the grandeur, what you may call the vertigo of Niagara. Everybody from all over the world goes to see and listen to the remarks of this great full. How convenient and pleasant it is to be a cataract like | -Millers' Gazette, London.

A natural element by which the that and have people come in great ty of Boise, Idaho, derives a great crowds to see and hear you! How enefit, is a great volume of hot much better that is than to be a lecturer, for instance and have to follow people to their homes in order to attract their attention! Many der to attract their attention: Maily people in the United States and Canada, who were once pure as the beautiful snow, have fallen, but they did not attract the attention the fall of Niagara does.—Bill

WHY GREAT BRITAIN IMPORTS. Our lively American contem-

porary, the Milling World, of Buffalo, exults in the fact, and with justice perhaps, that the exports of flour in their past season amounted to the enormous total of 16,209,735 brls, the vast bulk of which went to Great Britain. And it asks, in consequence, what ails British mills? Our answer must be that British mills are pretty well under the circumstances, and that they are still for the most part making better flour than America, as a whole, sends us, but being a free country we cannot put a check upon the indiscriminate consigning of American flour to this country at ruinous prices. We can assure our American contemporary that it is a mistake to suppose that English scientific bakers cannot get along without American flour. They take it because it is the cheapest article, not because it is the best; and the fact that American flour has to bear transport charges over thousands of miles, only goes to prove that there is no profit in the sending of the flour here at present low prices, say 21 for Milwaukee patents, and 23 to 236 for Minnesota Patents. A general census of the American millers who export flour to Great Britain, would, we are sure, quite demonstrate the fact to our "spread-eagle" contemporary, that the business is profitless, and is only continued in the hope of keeping a market for what may prove better times bye and bye. To say that the British miller is incapable of producing flour that will satisfy British bakers and bread eaters (which is what our contemporary avers), is, to say the least, stretching a point. It is certainly true economy for the British miller to import grain and not flour, but as we have said, this free country of ours does not go out of its way to prevent foreign manufacturers from cutting their own throats, which is what American millers have been practically doing for months past. If the British scientific baker cannot do without American flour, how comes it that in the vast bread-eating counties of Lancashire and

American Steam Gauge Co.

. . Sole Manufacturers . .

BOURDON STEAM GAUGES.

WITH LANE'S IMPROVEMENT.



THO MPSON'S IMPROVED MDICATON.

Over 2,500 in use.

American Pop Safety Valves

For Lecomotive, Stationary and Portable Boilers, and Instruments Incidental to the use of Steam.

Send for Price List I._.

36 CHARDON ST.,

SEND FOR BOSTON, MASS.

BRANCHES:

NEW YORK, N.Y., | CHICAGO, ILL., 51 John Street. | 16 N. Canal St.

THE VILTER MFG. CO.

Bullders of Improved

Corliss Engines, Compound-MILWAUKEE, WIS.

High Pressure, Triple Expansion.

HOW TO GET SLEEP. A SIMPLE METHOD WORTHY OF TRIAL.

Sleep rules have an addition. It is to place the right hand on the forehead and the left at the back of the neck, while counting 49. The rationale of this process is thus explained by Dr. Salisbury: The palm of the right hand and the fore part of the body are both plus (or positive) magnetic poles. Like poles repel, and by thus placing the palms of the hands over the various centres of plexuses, a vital currant is directed back into the body, its normal circuit is re-established, and its energies are guided and evenly distributed among the organs situate along its course. The physical and mental systems will become passive, contented and comfortable, all parts working together for the common good. The result will be composure and recuperation. All distracting, harassing, melancholy imaginings and gloomy forbodings will have passed away; the stomach and bowels and all their glandular appendages will renew their healthy func-Yorkshire, hardly a bag of will renew their healthy func-American flour is used? and tions, while digestion and as-



REGULATE THE STOMACH, LIVER AND BOWELS AND PURIFY THE BLOOD.

RIPANS TABULES are the best Medine knewn for Indigenties, Billionsees, Leadache, Conscipation, Dysoposic, Chreuie liver Treubles, Bissiness, Bad Complexion, Dysoniery, Officastve Breath, and all disrders of the Stomach, Liver and Bewolstein, Constitution, Are pleasant to be most delicate constitution. Are pleasant to be most delicate constitution. Are pleasant to demand the constitution of the constitut

10 SPRUCE STREET, NEW YORK CITY.



Scientific American

Largest circulation of any scientific paper in the world. Spiendidly illustrated. No intelligent man should be without it. Weekly, \$3.69 a year; \$1.30 stx months. Address MUNN & CO. PUBLISHERR, 361 Broadway, New York City.





DUST! DUST!

G PBRe! Patent Dust Preference

G PBRE! PBRE!

G P 80-80 Lo Salle St., CHICAGO

Fiorida and the Sunny South, via the Big Four Route.

To all persons contemplating a southern trip, the Big Four offers special attractions and advantages possessed by no other line. Solid Vestibuled trains, heated with Steam and equipped with palace sleeping cars, reclining chair cars and elegant parlor cafe dining cars run daily, making connection in Central Union Station, Cincinnati, with through express trains of the Queen & Crescent Route, Louisville & Nashville, Kentucky Central and Chesapeake & Ohio Railways, avoiding thetedious transfer necessary on otherlines and affording practically through train service to Old Point Comfort, Asheville, Chattanooga, New Orleans, Savannah, Jacksonville, St. Augustine, Tampa, Indian River and all winter resorts of the South. Tourist tickets vis the Popular Big Four Route at special low rates are on sale at all coupon ticket offices throughout the county. Ask the agent for ticket vis the Big Foru Route. D. B. Martin, General Passenger Agent, Cincinnati, Ohio.

ALL persons desiring to reach the entire flour and grain trade, by circular or otherwise, should ob-tain a copy of "Cawker's American Flour Mill and Grain Elevator Di-rectory for 1892-93." Address THE UNITED STATES MILLER, publisher, 68-C Mitchell Bldg, Milwaukee, Wis.

NATER WHEELS

Specially adapted to all Purposes and Situations. Flour Milling, Mining and Manufacturing.

Plants of all kinds driven by them. Easy working gates. We guarantee highest power with smallest quantity of water, at full and part gates; insuring easy regulation and steady motion. Successfully operating under heads of 2 to 400 ft. Write us for fine pamphlet and state your wants.

THE JAMES LEFFEL & CO. SPRINGFIELD, OHIO, U. S. A. or 110 Liberty St., New York City.

WANTED.

MILWAUKEE MILLERS.

A N important, reliable Flour Importing house in the Eastern part of Scotland wishes to open business relations, on usual documentary c. i. f. terms, with a Milwaukee miller of good standing. References at disposal. Appl to Editor of UNITED STATES MILLER, 68-c Mitcheli Building, Milwaukee, Wis.

ووووووههههه

IF YOU WANT INFORMATION ABOUT

THE PRESS CLAIMS COMPANY,

JOHN WEDDERGURN, - Managing Attorne
P. O. Box 462. WASHINGTON, D. C.

SOLDIERS, WIDOWS,
CHILDREN, PARENTS.
Also, for Bolders and Ballore disabled in the line of duty in the regular Army or Navy since the war.
Survivors of the Indian wars of 1822 to 1842 and their widows, now entitled. Old and rejected claims a specialty. Thousands entitled to higher race.
Bend for new laws. No charge for advice. No fee until successful.

المال المالة المالة



Price by mail, pest-paid, 50 cts. Stamps taken. - Address,

The United States Miller,

MILWAUKEE, WIS.

READ THE

NEW YORK Dailo Commercial Bulletin.

Its reputation as the most reliable com mercial paper is conceded by all.

SAMPLE COPIES FREE.

Its market reports are the most complete and trustworthy of any published and cover all trades.

SAVE YOUR MONEY

by subscribing to the "Daily Commercial Bulletin" and read its reports of the New York Markets.

PRICE

New York Daily Sulletin Association, No. 32 BROADWAY, NEW YORK CITY.

FOR SALE OR FOR RENT.

POR SALE—The flour mill known as the "MODEL MILLS." Rochester, N. Y., 200 barrels, winter and spring wheat, roller and stone process, modern machinery in good repair, good water power, long lesse on easy terms, good custom trade. Must be sold to close an estate. Apply to C. D. Kiehel and John H. Campbell. Executors, 806 Wilder Building. Rochester, N. Y.

FOR SALE—The "PIONEER MILLS."
Washington, D. C. This is a 500 barrel full roller mill, built according to the Edw.
P. Allis system. First-class water power.
Machinery of the most modern and improved patterns. Railway connections hirst-class. For full particulars address,
AUSTIN HERR,
Washington, D. C.

STONE DRESSER WANTED.

WANTED-A miller, who thoroughly understands stone dressing, to take charge of a Three-run Mineral Paint mill. Permanent situation for a suitable man. Call on or address,

n or address. W. J. KNOX, 120 Fifteenth St., MILWAUKEE, WIS

SITUATIONS WANTED.

MILLER AND MILLWRIGHT, owning general mill repairs, desires a situation in the Northwestern part of the United States. Is best acquainted with the Hungarian process, but competent in all kinds of grinding. Twenty-nine years of age. Three years in U.S. Speaks English, German and Hohemian. Address.

F. L. KOPRIVA.

Gilmerton. Norfolk Co., Vn.

A MILLER, capable of taking full charge of a mill of from 40 to 150 barrels daily capacity, desires a situation. First-class references furnished. Address, J. W. MynDAY, Huron, Ind.

WANTED—A thorough miller and mill-wright desires a situation. References furnished if desired. Address. MILLER & MILLWRIGHT, Box 123, Nashville, Tenn.

WANTED-Achange by a competent miller with 15 years' experience in good
mills. Am a young married man, now
managing a successful mill. One year in
this position: three years in last as formarried 150 barrel mill. Have a complete
kit of toole, and do repairing. Reference,
furnished. Correspondence solicited, from
Nebraska especially. Address,
S. C. EARNEST, St. Joseph, Mo.

WANTED-A situation by an experienced miller, single man. Hard wheat country preferred. References, Guthrie Bros. Can go at once. Address, W. A. PARK, Box 73, Superior, Neb.

A COMPETENT MILLER

Who has had 20 years' experience in the manufacture of flour and corn meal, wants a position. If in need of such a man, or having any information that would lead to a beneficial result, please address, ERNST HADER, St. Louis, Mo.

WM. L. BOYD.

ALBERT L. BOYD.

WM. L. BOYD & BRO.,

GENERAL COMMISSION MERCHANTS, FLOUR, GRAIN AND MILL FEED,

208 Spear's Wharf, BALTIMORE, MD.

We make a specialty of Flour and Mill Feed. Our trade on the medium and lower grades of Flour by far exceeds the supply at all times. Millers having a surplus would do well in sending samples and con-sulting us first, before disposing of same. Liberal advances made on consignments. REFERENCES: BALTIMORE BANKS.

GEO. W. PHILLIPS, JR.,

Commission Merchant in

FLOUR AND GRAIN, 763 THE ROOKERY,

-CHICAGO.

C. CAESAR & CO.,

GRAIN EXPORTERS, 30 North Front St.,

PORTLAND, ORE.

S. S. LINTON & CO.,

Grain Commission Merchants,

42 Board of Trade, DULUTH.

46 Chamber of Commerce

MINNEAPOLIS.

H. W. PARRISH,

MONTGOMERY, ALA.

Solicits Correspondence looking to the Sale of

FLOUR, GRAIN, HAY, ETC. ETC..

H. R. STROEMER,

Grain and Provision Broker,

MACON, GA. CORRESPONDENCE SOLICITED.
Reference: Exchange Bank, or any other bank in Macon.

F. O. TREPAGNIER. EDV Established 1844. EDWARD BRES.

TREPAGNIER & BRES,

DEALERS IN Provisions and Western Produce,

81 MAGAZINE STREET. NEW ORLEANS.

Near Poydras.

SPECIAL OFFER TO OUR READERS. By Special Arrangement with the Publishe:s We Offer You

Home and Country Magazine

Regular Price 25 Cents a Copy, or \$2.50 a Year, Six Months for Only 75 Cents; Three Months for Only 40 Cents. etisement in Another Part of This Paper ALWAYS USE THE BLANK BELOW WHEN ORDERING. THE

Gentlemen: Please send "Home and Country Magazine"

Date. in in it is in the same in the

1893. Amt. herewith...

cents.



GEO. H. NEAFFORD, General Passenger Agent. J. H. HILAND, General Freight Agent. CHICAGO, ILL.

W. J. BOYLE, City Pass. and Ticket Agent,

400 East Water St., Milwaukee, Wis.



With its thousands of miles of perfectly equipped road reaches the most important points in TLLINGIS, 10WA, WHECONSIN, NORTHERN MICHIGAN MICHIGAN MERRARY and WIOMING.

SOLID VESTIBULED TRAINS

Between Chicago and St. Pau Hinneapolis, Council Bluff Omahs, Denver and Portland.

FREE RECLINING CHAIR CARS

Between Chicago, Council Bluffs, Omaha, Denver and Portland.

THROUGH SLEEPING CARS

Between Chicago and San Fran-cisco without change.

SUPERB DINING CARSA

CHICAGO & NORTH-WESTERN R'Y

CHOIGE OF 2 TRAINS

MONON ROUTE

CHICAGO and INDIANAPOLIS, CINCINNATI,

CHICAGO.

LOUISVILLE,

AND ALL POINTS SOUTH.

Unsurpassed Pullman Car Service, SURE CONNECTIONS FAST TRAINS.

SHORT ROUTE TO FLORIDA.

Be sure your tickets read via Monon toute (L. N. A. & C. Ry.), and your comfort guaranteed.

For Maps, Guides, etc., address

JAMES BARKER, Gen'l Pass'r Agent, Monon Block,

OHIOAGO. For Freight Rates call on or address, M. HUNTER. Commercial Agent

Room 10, Milcheil Bidg., MILWAUKEE

SEND for a copy of Cawker's American Flour Mill and Grain Elevator

Directory for 1892-93.

THE WISCONSIN CENTRAL LINES RAILROAD CO.

Fast Trains with Pullman Vestibuled Drawing Room Sleepers, Dining Care and Coaches of latest design, between Chicago and Kilwaukee and St. Paul and Kinne-

Coaches of latest design, between Chicago and Milwaukse and St. Paul and Einnespold Milwaukse and St. Paul and Einnespold Milwaukse and St. Paul and Einnespold Milwaukse and Ashland and Duluth. Through Fullman Vestibuled Drawing Room and Tourist Sleepers via the Northern Pacific Estiroad between Chicago and Portland, Ore., and Tacoma. O Convenient Trains to and from Eastern, Northern and Central Wisconsin points, affording unequaled service to and from Wauksshe, Fond du Lac, Oshkosh, Neensh, Menssha, Chippewa Falls, Eau Claire, Hurley, Wis, and fromwood and Bessemer, Mich. 9 For tickets, sleeping car reservations, time tables and other information, apply to agents of the Line or to Tickets Agents anywhere in the United States or Canada. B. R. Annalle, General Manager. 9. Ourcaoe, Lt. J. M. HANNAPOER, Geni Traile Mgr. St. Paul, Mill. G. Babw, Chailless and Taket, Cencae, Lt. J. H. HANNAPOER, Geni Traile Mgr. St. Paul, Mill. G. Bobb, Geni Pass'r and Tak Agt, Cencae, Lt. Jat. C. Fond, Geni Pass'r and Tak Lagt, Cencae, Lt. Jat. C. Fond, Geni Pass'r and Tak Lagt, Cencae, Lt. Jat. C. Fond, Geni Pass'r and Tak Lagt, Cencae, Lt. Jat. C. Fond, Geni Pass'r and Tak Lagt, Cencae, Lt. Jat. C. Fond, Geni Pass'r and Tak Lagt, Cencae, Lt. Jat. C. Fond, Geni Pass'r and Tak Lagt, Cencae, Lt. Jat. C. Fond, Geni Pass'r and Tak Lagt, Cencae, Lt. Jat. C. Fond, Geni Pass'r and Tak Lagt, Cencae, Lt. Jat. C. Canada.

MILWAUKEE, LAKE SHORE & WESTERN R'Y.

THROUGH

SLEEPING AND PARLOR CAR LINE

FAST TRAINS

CHICAGO AND MILWAUKEE

APPLETON, WAUSAU and ASHLAND

The Gogebic, Penokee and Montreal Iron and Mineral Ranges.

HURLEY, IRONWOOD, BESSEMER and WAKEFIELD. The Manufacturing Centers and Lumber-ing Districts of CENTRAL AND NORTHERN WISCONSIN,

SHEBOYGAN, MANITOWOO, KAUKAUNA, APPLETON, WAUSAU, ANTIGO, EAGLE RIVER and RHINELANDER

The only Line reaching the Celebrated Fishing Resorts of Northern Wisconsin and Michigan,

Gogebic, Tomahawk and Pelican Lakes, RHINELANDER.

EAGLE WATERS,

TWIN LAKES, LAKE VIEUX DESERT,

WATERSMEET.
The ONTONAGON, BRULE and other Trout Streams, Noted for their excellent Muskalonge, Bass Pike, Pickerel and Trout fishing.

DIRECT LINE
Yis New London Junction and C. B., W. & St. P. R. R. FOR

SEYMOUR, GRAND RAPIDS AND STEVENS POINT.

Via Ashland and Northern Pacific R. R.

Superior, West Superior, Duluth, Pacific Coast and Intermediate Points

Guide Books, Maps, Time Cards and full information furnished on application to the General Passenger Agent.

Milwaukee City Office, 102 Wisconsin St. Chicago City Office, 203 Clark St.

H. F. WHITCOMB, C. L. RYDER, General Manager. Gou'l Pass'r A. MILWAUKEE, WIS.

EXPORTING millers should write to the Riverside Printing Co., Milwaukee, Wis., for the best Flour Cable Code ever published. There are more copies of this Code in use than of ALL other flour codes published. It is simple and accurate. It is called "The Riverside Flour Cable Code."

Cleveland, Cincinnati, Chicago & St. Louis GOODRICH STEAMERS

BIG FOUR ROUTE

CHICAGO

INDIANAPOLIS CINCINNATI.

The only Line Running the POPULAR BUFFET SLEEPING CARS

CHICAGO AND CINCINNATI.

The Only Line from Chicago running Solid Vestibule Trains into Central Union Depot, Cincinnati, where connec-tion is made with Through Car Lines for Fiorida, avoiding all disagreeable transfers.

Through Tickets via the Big Four Route can be procured at all Ticket Offices in the Northwest.

D. B. MARTIN, O. O. MURRAY. Traffic Manager. Gen'l Pass'r Agent CINCINNATI. O.

GRAND HAVEN ROUTE

D. G. H. &M. RY. This Favorite Summer Route with its PALATIAL IRON STEAMERS

CITY OF MILWAUKEE and WISCONSIN AND FIRST-CLASS TRAIN SERVICE IS NOW OPEN.

Fast Line to Grand Hapids, muskegon, Saginaw and Points in Michigan and East.

Steamers leave Millwauker daily (Saturday excepted) at 0.00 p. m., connecting at Grand Haven with limited Express which leaves at 5.40 a. m., arrives at Grand Rapids 6.45 a. m., Saginaw 10.30 a. m., Defroit 11.50 a. m., Toronto 7.50 p. m., Ningara Falis 7.50 p. m., Montrea 7.45 a.m., New York 10.3 a.m., Bostona 8.00 p. m.

Buffet Parlor and Sleeping Car Service

Tickets on sale at all coupon ticket offices; company's office, 39 Wisconsin St., and at dock, foot of West Water St. B. C. MEDDAUGH. JOHN W. LOUD, Traffic Manager, Passenger Agent, Detroit. 99 Wisconsin St., Milwaukee

OCEAN.

White Star, Inman, Cunard, Anchor, remen, Hamburg, French, and all other

Bremen, Hamburg, French, and all other lines. Cabin plans and sallings sent by mail and rooms secured in advance. British Very Cheap Steerage Batos, British orts and Milwaukee, \$3.50.

B. C. MEDDAUGH, Gen'l Steamship Agt., 99 Wisconsin Street, Milwaukee.

BOOKS.

PRACTICAL TREATISE ON MILL-Gearing Wheels, Shafts, Riggers, etc., for the use of engineers, with eleven plates. T. Box. Third edition. 12 mo.

plates. T. Box. Third edition. 12 mo. 8.00.

FIVE HUNDRED AND SEVEN MEchanical Movements, embracing all those which are most important in Dynamics, Hydraulics, Hydrostatics, Pneumatics, Steam Engines, Mill and other Gearing, Pressess, Horology and Miscellaneous Machinery. H. T. Brown. Sixteenth edition. 12 mo. 14.00.

A TREATISE ON MILLS AND MILL Work. W. Fairbairs. 8 vo. 8.75.

A MANUAL OF MACHINERY AND MILL Work. W. J. M. Rankine. Fifth edition, thoroughly revised by W. J. Millar, with nearly 300 illustrations. 12 mo. 8.50.

TEMPLETON'S ENGINEER, MILLWright and Mechanic's Pocket Companion, revised, corrected and enlarged from the Eighth English edition by Julius W. Adams. 2.00.

A TREATISE ON FRICTION AND LOST

Julius W. Adams. 22.0.

A TREATISE ON FRICTION AND LOST
Work in Machinery and Millwork. R. H.
Thurston. 6 tillustrations. 8 vo. 52.0.

AMERICAN MILLER AND MILLwright's Assistant, by William Carter
Hughes. 12 no. 51.0.

THE MILLER'S, MILLWIGHT'S AND
Engineer's Guide, by Henry Pallett,
Hust. 280 pages. 12 no. 52.00.

PRACTICAL HINTS ON MILL BUILDing, by E. J. Abernathy. Hust. 8 vo.
54.00.

BOOKS.

Any of the books in this list will be sent by mail, free of postage, to any part of the world, upon receipt of price. Address and make all drafts payable to the order of THE UNITED STATES MILLER, 68-C Mitchell Bidg, MILWAUKEE, Wis,

LEAVE MILWAUKEE FOR

Chicago daily, Saturdays excepted, 7,00 p m cine daily, Saturdays excepted, 7.00 p m

NOW READY!

A NEW AND VALUABLE BOOK.



13,000 Receipts. 680 Pages. Price 85.

This splendid work contains a careful compilation of the most useful Receipts and plation of the most useful Receipts are founded by the contains a careful compilation of the most useful Receipts are for signed and platic for the series of correspondents as published in the Scientific American during the past fifty years; together with many valuable and important additions.

The very Thousand selected receipts are here collected; nearly every branch of the useful arts being represented. It is by far the most comprehensive volume of the kind ever placed before the public.

The work may be regarded as the product of the studies and practical experience of the ablest chemists and workers in all parts of the world; the information of the highest value, saranged and condensed in concise form convenient for almost every inquiry that can be thought of, relating to formalize used in the various manufacturing industries, will here be industried to the contained of the condense or employment relating to the home manufacture of sample articles, will find in it hundreds of most excellent suggestions.

gestions.

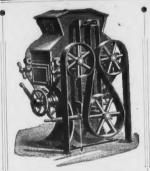
By mail postpaid to any part of the world
upon receipt of price. Address and make
all remittances payable to order of
THE UNITED STATES MILLER.

68-c Mitchell Building. Milwaukee, Wis.

CLUB LIST.

States Miller. 4.25
Harper's Young Feople, monthly, and
United States Miller. 2.50
Century, monthly, and United States
Miller. 4.50 St. Nicholas, monthly, and United States Miller..... Stationary Engineer, weekly, and United States Miler. 200
And other publications at reduced rates.

UNITED STATES MILLER, MILWAUREE, WIS.



THE KEYSTONE 4 ROLLER WHEAT MILL.

Flour Mills. * Corn Mills. * Hominy Mills.

DON'T

Build a new mill;

Increase your capacity;

Have your rolls reground or recorrugated;

Buy even a pulley, a belt, or a piece of bolting cloth,

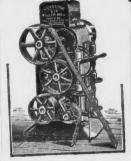
UNTIL YOU WRITE US. . . AND WE WANT TO HEAR FROM YOU.

Because we will give you first-class work and prompt attention.

Because we will treat you fairly on prices.

Because we have the best and most effective line of machinery.

O Because we guarantee satisfaction in every particular.



THE KEYSTONE 6 ROLLER CORN MILL.

Address, THE J. B. ALLFREE MFG. CO., INDIANAPOLIS, IND. .

Gawker's American Flour Mill and Grain Elevator Directory

Contains: 1. A list of Flour Mills in each State, Territory and Province, with names of owners, P.O. and county; in thousands of instances giving their capacity in barrels per day, kind of power used, etc., also indicating such firms as are supposed to be worth \$10,000 and upwards. Total number of mills given, about 18,000.

2. A list of miscellaneous mills, such as Corn, Oatmeal, etc.

A list of Millwrights.

4. A list of Grain Elevator Owners and Grain Dealers.

5. A list of well-rated Flour Brokers, Merchants and Bakers in all parts of the United States and Canada, which has been compiled with extraordinary care, capital and credit being considered in the compilation.

6. A list of Foreign flour and grain importers, secured by our own special correspondents and believed to be thoroughly reliable. In short, it is a complete KEY for reaching the Flour and Grain Trade, enabling ANY department of the

trade to reach ANY other desired.

The price is invariably Ten Dollars per Copy, on receipt of which it will be sent, post paid, to any part of the world. The complete work only is sold. We do not supply lists for single states. These Directories have been issued every two years since 1878, and have been declared indispensable by the prominent mill-furnishers, flour brokers, millers, etc., of this country and UNITED STATES MILLER, 68-C Mitchell Building, Milwaukee, Wis. Europe. Address,

MANUFACTURING SITES___ FOR SALE!

MHE undersigned owns a few of the best manufacturing sites in the city of Milwaukee, adjoining those now occupied by the Milwaukee Car Wheel and Foundry Co. and the magnificent plant of the Fuller-Warren Stove Works, which cover nearly ten acres of ground. Best of railroad facilities. Parties desiring a suitable location should investigate this. Address,__

E. HARRISON CAWKER,

36 & 37 LOAN & TRUST BLDG.

MILWAUKEE, WIS.



QURNHAM'S Full Gate - 84

NEW IMPROVED · · · · STANDARD TURBINE.

IT gives on either a Vertical or Horizontal shaft more power for its price, yields a greater percentage for water used, either with full or part gate drawn, and is the simplest, most durable and best finished wheel made. Send for illustrated catalogue and state head of water and power required. power required.

BURNHAM BROS., YORK, PA





DRAWBACK ON BACS COLLECTED.

R. F. DOWNING & CO.,

NEW YORK.



The Most Compact, Durable, Best Sheller and Best Cleaner.

Takes up but little room, runs at low rate of speed, requires no attention. It is in every respect the

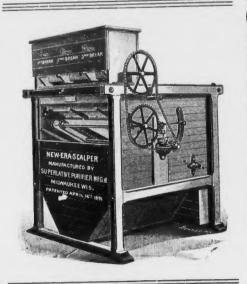
Best Sheller ever offered to the Public

Please mention this paper. Write for full particulars to . . .

Manufacturers of "Western" UNION IRON WORKS, Shellers, Cleaners, Separators, and all kinds of Elevator Machinery.

DECATUR, ILL.

THE NEW ERA SCALPER



MANUFACTURED BY

Superlative Purifier Mfg. Co.,

MILWAUKEE, WIS.

The Largest Minneapolis Mills

And the smallest custom mills, as well as mills of intermediate capacity, are using this machine, and find it an improvement over old style scalpers.

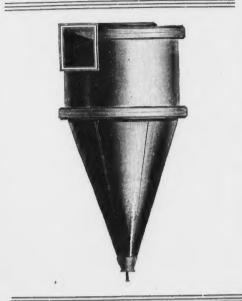
Long system, short system, winter wheat, spring wheat—it makes no difference. This scalper will do splendid work in any of them. You can do the best milling without sieve scalpers, and The New Era is the Best.

Prices are low, terms favorable, and guarantee strong.

WRITE US.

SUPERLATIVE PURIFIER MFG. GO. MILWAUKEE, WIS.

VORTEX



DUST COLLECTOR

Going to Put in Dust Collectors This Fall?

REMEMBER, we make the best Collector on the market; sell them at reasonable prices; guarantee satisfaction and allow trial.

This collector is used and recommended by nearly every mill furnisher in the country. Over three thousand in use and giving satisfaction.

DROP US A LINE.

VORTEX DUST COLLECTOR CO.